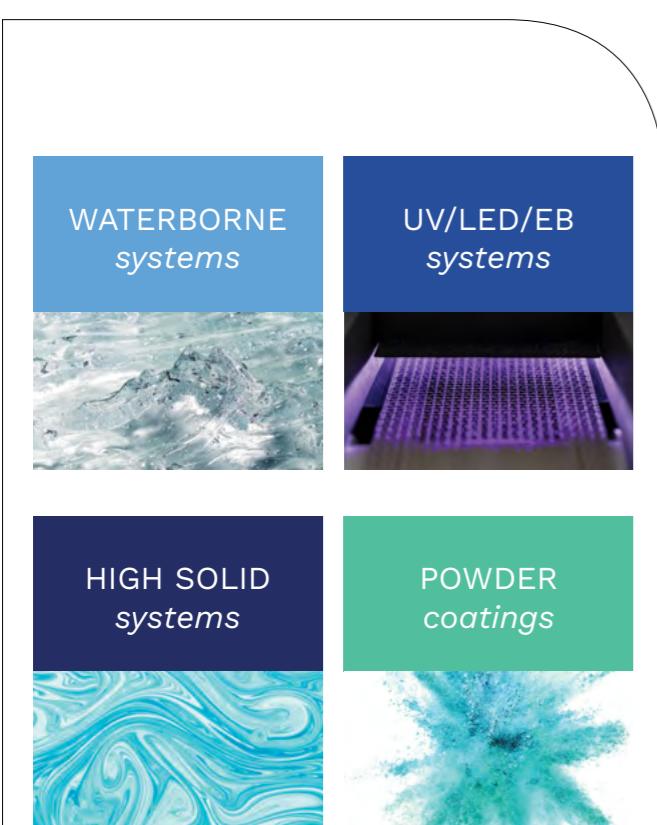




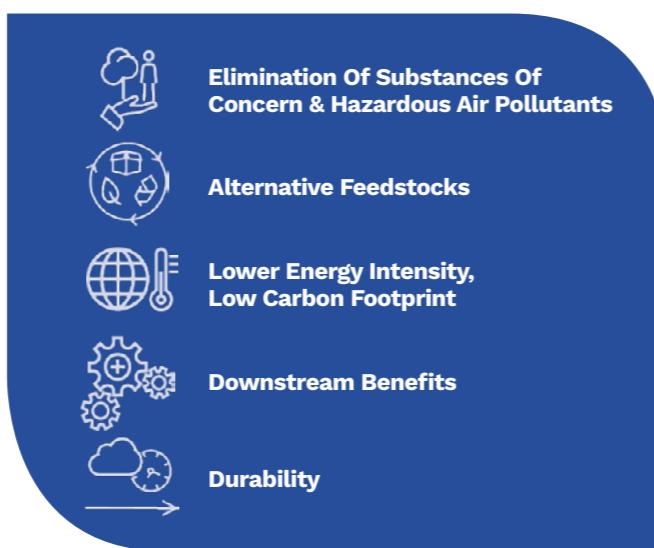
## Arkema, a world leader in Specialty Materials

Building on unique set of expertise in materials science, Arkema designs specialty products that address ever-growing demand for innovation and sustainability. We are continually looking for new ways to empower customers and industry leaders to address key challenges such as new energies, advanced technologies, dwindling natural resources, mobility innovation and urbanization trends.



### Coatings solutions

Arkema is a trusted partner, offering a wide range of specialty resins and additives for virtually every sector of the coatings industry. With decades of formulation expertise, Arkema helps customers produce performance-driven, sustainable coatings, adhesives, and inks that can meet the most stringent industry regulations.



### Make your coatings more sustainable!

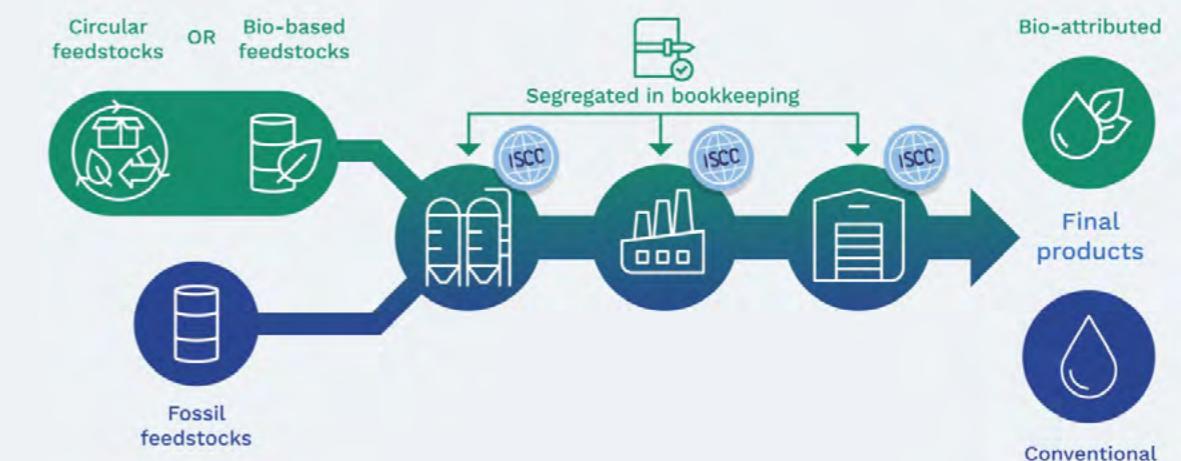
For the world to change, we must change the materials we use. Thus, with our partners, we are continuously innovating to offer to our customer a wide variety of options to advance sustainability and performances. To move toward a more circular and lower carbon economy we look at both how the product is designed and how it enables the downstream performances. Hence, in addition of improving our product safety, our experts are committed to developing solutions using more renewable resources and lowering energy consumption across the value chain, while ensuring sustainable performances such as longer durability.

Look for these icons to identify products with specific sustainability features:

## Mass balance approach

### A bio-based offer using mass balance approach to transition to a more circular and lower carbon economy

Arkema is now offering a brand-new bio-based materials offer using the “Mass Balance” approach. This new offer allows our customers to benefit from a product range coming from renewable feedstocks with a lower carbon footprint compared to the fossil version.



### What is the “Mass Balance” approach?

The “Mass Balance” approach consists in replacing fossil by renewable feedstocks as the origin of the supply chain, segregating by bookkeeping the quantity of renewable material and “attributing” this quantity to finished products at the end of the chain. The “Mass Balance” approach requires no modification to the process, or new product accreditation as the high quality and performance of the products remain the same, which makes it easier for our customers to take them up.

### Certifying the traceability of this bio-based origin

To ensure the traceability of our “Mass Balance” products, our whole supply chain is certified by a third party according the ISCC+ standards. We provide our customers with certificates that guarantee the share of bio-based feedstock in the product they are purchasing.

The ISCC+ certification of the whole supply chain guarantees that the origin of the renewable sources meets ISCC+ standards for sustainable feedstocks.

# WATERBORNE - EUROPE

Chemistry	Product	Typical Characteristics						Main Application Fields									Sustainability	Typical Properties				
		Solids %	Viscosity (mPa.s)	Solvent	MFFT (°C)	Fatty Acid Content (%)	pH	Interior Wall Paints	Exterior Wall Paints	Wall Primers	Plasters and Renders	Elastomeric Coatings	Wood Trim	Wood Primers	Wood Stains and Varnishes	Decorative Metal	Wood Floor Coatings	Concrete Floor Coatings	Bio-based Content %	Attributes		
ACRYLIC	ENCOR® 2140	60	4000	Water	6	-	8.5		●											Pure acrylic binder for exterior coatings with high solids content.		
	ENCOR® 2144	30	<80	Water	0	-	8			●							●			Pure acrylic binder with a very low particle size which ensures good penetration into porous substrates. Perfect for impregnation coatings.		
	ENCOR® 2505	47	300	Water	6	-	8.25		●	●	●										Pure acrylic binder with a low MFFT for exterior masonry coatings. Resistant to alkali and stable in silicate formulations.	
	ENCOR® 2506	47	<600	Water	<5	-	8	●	●	●	●		●	●						Pure acrylic binder with low MFFT for low tack interior and exterior masonry coatings. No formaldehyde added.		
	ENCOR® 2510	45.5	<200	Water	12	-	8.5		●						●	●				Pure acrylic binder with excellent adhesion to wood, concrete and aged alkyd and superior exterior durability.		
	ENCOR® 2710	42.5	<200	Water	4	-	8.5	●		●					●	●				Pure acrylic emulsion with low MFFT for stain blocking primers and topcoats (tannin, nicotine, common household stains, etc.) and multi-substrate primers. Excellent binder for renovation paint.		
	ENCOR® 2711	43	<1000	Water	15	-	9		●	●					●	●	●			Pure acrylic emulsion for stain blocking primers and topcoats (tannin, nicotine, common household stains, etc.) and multi-substrate primers. Good sandability for wood applications.		
	ENCOR® 2787	47	<1000	Water	15	-	8	●	●	●	●					●				Extreme water resistant pure acrylic binder. Dedicated to exterior durable clear and pigmented coatings for concrete and wood.		
	ENCOR® 2793	43	<1000	Water	15	-	9	●	●	●				●	●	●				Pure acrylic anionic binder for renovation paint. Excellent adhesion on various substrates, stain and tannin and knot blocking.		
	SNAP® 2709	45	<500	Water	5	-	8							●	●	●	●			Low MFFT pure acrylic binder with a core-shell structure adapted to interior and exterior trim paints. Good hardness and stain resistance.		
	ENCOR® 2124	43	<100	Water	3	-	7.5							●	●	●	●			Pure acrylic binder for wood stains and high gloss lacquers with good blocking resistance, low water absorption and excellent exterior durability.		
STYRENE ACRYLIC	ENCOR® 2100	50	1500	Water	0	-	7.75	●	●	●	●	●								Universal styrene acrylic binder with low MFFT for interior and exterior applications. Compatible with silicates.		
	ENCOR® 2105	60	1000	Water	0	-	7.5		●	●	●	●									Elastomeric styrene acrylic binder for low VOC flexible exterior coatings and roof coatings.	
	ENCOR® 2425	50	7000	Water	21	-	8	●	●	●	●									Universal styrene acrylic binder for general purpose coatings. Formaldehyde free. Compatible with silicates.		
	ENCOR® 2426	50	7000	Water	21	-	8	●	●	●	●									Universal styrene acrylic binder for interior and exterior applications with low odour, free of formaldehyde and ammonia. Compatible with silicates.		
	ENCOR® 2423	50	10500	Water	20	-	8	●	●	●	●										Universal styrene acrylic binder for general purpose coatings. Compatible with silicates.	
	ENCOR® 2514	30	<100	Water	0	-	7.75			●				●			●				Styrene acrylic with a very low particle size which ensures good penetration into the porous substrate. Perfect for impregnation coatings.	
VINYL ACRYLIC	ENCOR® 2322	50	4500	Water, BDGA	<5	-	4.5	●	●		●											Universal vinyl versatate binder for interior and exterior coatings.
	ENCOR® 2326	55	4500	Water	11	-	5	●	●		●											Vinyl versatate acrylic binder for matte to glossy wall paints with good wet scrub resistance.
ALKYD EMULSION	SYNAQUA® 2070	53	<300	Water	-	50	7					●	●	●			>45 (1)				Alkyd emulsion binder dedicated to wood stains and wood oil.	
	SYNAQUA® 2080	50	<300	Water	-	40	7	●									43 (2)				Alkyd emulsion binder for wall paints.	
	SYNAQUA® 2090	50	<300	Water	-	40	7	●									>35 (1)				Alkyd emulsion binder designed to be formulated without driers for low yellowing wall paints.	
	SYNAQUA® 4804	50	<300	Water	-	37	7.5	●	●			●	●	●	●		43 (2)				Alkyd emulsion binder designed for high performance interior and exterior coatings. Low yellowing and high gloss potential.	
	SYNAQUA® 4856	50	<500	Water	-	-	8.5	●									97 (2)				> 97% bio-based alkyd emulsion for wall paints. Very low emissions to pass the most stringent labels. Good balance of properties.	
	SYNAQUA® 6812	100	2500	-	-	80	-		●				●			●		>70 (1)				Self emulsified alkyd used as a co-binder to help penetration into porous substrate. Also for tinting pastes, grinding fillers and pigments, or as the sole binder for matte paints and primers.
	SYNAQUA® 4850	50	<300	Water	-	-	7.5	●	●			●	●	●	●	●		43 (2)				Alkyd emulsion binder for premium trim paints. Excellent durability and blocking resistance, very low yellowing, and good hardness development.

# SOLVENTBORNE - EUROPE

Chemistry	Product	Typical Characteristics				Main Application Fields								Sustainability	Typical Properties			
		Solids %	Viscosity (mPa.s)	Solvent	Fatty Acid Content (%)	Interior Wall Paints	Exterior Wall Paints	Wall Primers	Plasters and Renders	Elastomeric Coatings	Wood Trim	Wood Primers	Wood Stains and Varnishes	Decorative Metal	Wood Floor Coatings	Concrete Floor Coatings	Bio-based Content %	Attributes
THIXOTROPIC ALKYD	GELKYD® 352 WD 54	54	675 (a)	Low aromatic white spirit	62					●		●				>25 (3)	 	Strong structured thixotropic alkyd that brings thixotropy to all types of solventborne coatings.
	GELKYD® 367 WD 65	65	550 (b)	Low aromatic white spirit	65					●		●				>40 (3)	 	Medium structured thixotropic alkyd that brings thixotropy to all types of solventborne coatings.
	GELKYD® 4648 WD 80	79	1400 (c)	Low aromatic white spirit	79					●		●				>50 (3)	 	High solids strong structured thixotropic alkyd that brings thixotropy to all types of solventborne coatings and helps reduce VOC.
	SUPER GELKYD® 3915 WDA 55	55	1300 (c)	Low aromatic high flash white spirit	69					●		●	●			>30 (3)	 	Strong structured thixotropic alkyd that brings thixotropy to all types of solventborne coatings. The gel is not affected by heat or polar solvents.
	SUPER GELKYD® 3920 WDA 49	49	300 (c)	Low aromatic high flash white spirit	-					●		●	●			>30 (3)	 	Pumpable strong structured thixotropic alkyd that brings thixotropy to all types of solventborne coatings. The gel is not affected by heat or polar solvents.
	SUPER GELKYD® 4743 WP 90	90	1900 (c)	Isoparaffinic solvent	84					●		●	●			>60 (3)	  	High solids strong structured thixotropic alkyd that brings thixotropy to all types of solventborne coatings. The gel is not affected by heat or polar solvents.
SILICONE ALKYD	SYNOLAC® 2700 WD 70	70	7200 (d)	Low aromatic white spirit	-					●		●	●			>30 (3)	  	Silicone alkyd for durable exterior coatings.
ALKYD	SYNOLAC® 4060 WDA 90	89	2000 (c)	Low aromatic high flash white spirit	72					●		●				>60 (3)	 	Low viscosity high solids alkyd that helps with VOC reduction in architectural coatings.
	SYNOLAC® 4097 WD 75	75	700 (d)	Low aromatic white spirit	62					●	●	●	●			>45 (3)	 	Low viscosity high solids alkyd that helps with VOC reduction in architectural coatings.
	SYNOLAC® 4103 WD 85	85	5500 (c)	Low aromatic white spirit	69					●		●				>55 (3)	 	High solids alkyd that can be used in combination with SARTOMER® SR350 trifunctional methacrylic monomer for optimum hardness development.
	SYNOLAC® 60 WD 70	70	4500 (c)	Low aromatic white spirit	61					●	●	●	●	●		>40 (3)	 	Universal long oil alkyd for interior and exterior coatings.
	SYNOLAC® 6005 WDA 70	70	1650 (c)	Low aromatic high flash white spirit	60						●					>40 (3)	 	Alkyd for durable exterior wood stains and more.
	SYNOLAC® 606 WD 75	75	4100 (c)	Low aromatic white spirit	63					●	●	●	●	●		>45 (3)	 	Low yellowing long oil alkyd.
	SYNOLAC® 4013 WD 85	85	4000 (c)	Low aromatic high flash white spirit	69					●	●					>50 (3)	 	High solids alkyd for wood stains. Short drying time.
	SYNOLAC® 613 WDA 80	80	5000 (c)	Low aromatic high flash white spirit	71					●	●					>55 (3)	 	High solids alkyd based on isophthalic acid for durable exterior coatings. Its low viscosity and high solids help the reduction of VOC.
	SYNOLAC® 755 WD 60	60	8000 (c)	Low aromatic white spirit	54					●	●	●				>25 (3)	 	Medium oil alkyd with good durability, short drying time and low yellowing properties.
	UNITHANE® 1077 WD 60	60	5750 (c)	Low aromatic white spirit	66					●		●	●			>35 (3)	 	Urethane modified alkyd mainly used for boat and frame coatings.
URETHANE ALKYD	UNITHANE® 644 WD 55	55	5250 (c)	Low aromatic white spirit	54					●	●	●	●			>25 (3)	 	Aliphatic urethane modified alkyd recommended for durable exterior clear and pigmented coatings. Good abrasion and chemical resistance and rapid drying.
	UNITHANE® 655 WD 55	55	1650 (c)	Low aromatic white spirit	61					●		●	●			>30 (3)	 	General purpose urethane modified alkyd.
	UNITHANE® 4555 WDA 55	55	1650 (c)	Low aromatic high flash white spirit	61					●	●	●	●			>30 (3)	 	General purpose urethane modified alkyd recommended for durable exterior clear and pigmented coatings. Good abrasion and chemical resistance and rapid drying.

Viscosity: (a) 50°C / (b) 40°C / (c) 25°C / (d) 20°C / others: 23°C

(1) Calculated according to ASTM D6866 (C bio-sourced / Total Organic Carbon) in the product as supplied

(2) % Measured according to ASTM D6866, C bio-based in the product as supplied

(3) Calculated according to NF EN 16785 (biomass / total product) in the product as supplied

# WATERBORNE - NORTH AMERICA

Chemistry	Product	Typical Characteristics				Main Application Fields										Sustainability	Typical Properties	
		Solids %	Viscosity (mPa.s)	MFPT (°C)	pH	Interior Wall Paints	Exterior Wall Paints	Wall Primers	Plasters and Renders	Elastomeric Coatings	Wood Trim	Wood Primers	Wood Stains and Varnishes	Decorative Metal	Wood Floor Coatings	Concrete Floor Coatings		
ACRYLIC	ENCOR® 627	43.5	500	9	9.8	●	●	●	●	●	●	●	●	●	●	●		Binder that is effective for stain-blocking primers.
	ENCOR® 636	50	300	20	8	●	●	●	●	●	●	●	●	●	●	●		Binder for interior and exterior coatings. APEO free.
	ENCOR® 651	65	500	9	9.1	●	●	●	●	●	●	●	●	●	●	●		High solids binder with good durability and adhesion. Performs well on athletic surfaces.
	ENCOR® 657	58	500	14	9	●	●	●	●	●	●	●	●	●	●	●		High solids binder for interior and exterior applications. APEO free.
	ENCOR® 631	50	<500	0	9	●	●	●	●	●	●	●	●	●	●	●		Low VOC capable binder for interior and exterior architectural coatings.
	ENCOR® 2722	42	500	<6	9.7	●	●	●	●	●	●	●	●	●	●	●		Acrylic suited for industrial wood applications and architectural coatings.
	NEOCAR® ACRYLIC 820	45	150	17	8.5	●	●	●	●	●	●	●	●	●	●	●		Ultra-small particle size, hydrophobic latex designed for use in a variety of applications.
	NEOCAR® ACRYLIC 850	45	150	45	8.5	●	●	●	●	●	●	●	●	●	●	●		Acrylic suited for pigmented concrete coatings and architectural coatings.
	SNAP® 720	49	<500	0	7	●	●	●	●	●	●	●	●	●	●	●		Binder that offers outstanding block resistance in low or zero VOC high-gloss coatings. APEO free.
STYRENE ACRYLIC	ENCOR® 461	47	1000	0	9.5	●	●	●	●	●	●	●	●	●	●	●		Styrene acrylic latex with good adhesion, gloss and block resistance.
	ENCOR® 471	48	400	22	9.5	●	●	●	●	●	●	●	●	●	●	●		High Tg styrene acrylic latex with good adhesion, gloss and block resistance.
	ENCOR® 481	48	400	0	9.5	●	●	●	●	●	●	●	●	●	●	●		Low VOC capable styrene acrylic latex with good adhesion, gloss and block resistance.
	ENCOR® 423	45	<250	28	9	●	●	●	●	●	●	●	●	●	●	●		Styrene acrylic suited for trim enamels, primers, and general industrial applications.
	ENCOR® 2721	43	100	<5	7.5	●	●	●	●	●	●	●	●	●	●	●		Styrene acrylic suited for industrial wood applications and architectural coatings.
VINYL ACRYLIC	ENCOR® 309	55	500	12	5	●	●	●	●	●	●	●	●	●	●	●		High molecular weight vinyl acrylic with good scrub resistance. APEO free.
	ENCOR® 317	55	<800	10	4.5	●	●	●	●	●	●	●	●	●	●	●		Vinyl acrylic with improved tint strength. Meets Master Painters Institute® (MPI®) standards.
	ENCOR® 310	55	<500	<4	5	●	●	●	●	●	●	●	●	●	●	●		High-performance binder with good scrub resistance and touch-up. APEO free.
	ENCOR® 357	56.5	275	12	5	●	●	●	●	●	●	●	●	●	●	●		Cost effective general-purpose binder with good block resistance. APEO free.
	ENCOR® 367	55	550	10	5	●	●	●	●	●	●	●	●	●	●	●		Shear stable general purpose binder. Used in intumescent coatings.
	ENCOR® 3560	60	500	11	4.7	●	●	●	●	●	●	●	●	●	●	●		High solids binder designed for patch and repair applications, as well as tape joint compounds. Sandable.
	NEOCAR® LATEX 2300	55	50	2	4	●	●	●	●	●	●	●	●	●	●	●		Binder noted for its hydrolytic stability, water resistance, and increased binding efficiency.
STYRENE BUTADIENE	ENCOR® DL 215	49	200	-	7.8	●	●	●	●	●	●	●	●	●	●	●		Binder uniquely suited for use in primer sealer formulations.
	ENCOR® DL 313	49	300	0	8.5	●	●	●	●	●	●	●	●	●	●	●		Binder for primer sealers that require moisture vapor barrier properties, alkali resistance and adhesion to galvanized metals.
ALKYD EMULSION	SYNAQUA® 4804 NA	50	300	-	7	●	●	●	●	●	●	●	●	●	●	●		Low VOC capable binder for interior and exterior applications. Good adhesion and durability. 43% bio-based content (2).
OPACIFIER	CELOCOR® AF	30.5	100	-	8.3	●	●	●	●	●	●	●	●	●	●	●		Ammonia-free, voided latex particle with improved hiding. TiO <sub>2</sub> replacement.

# SOLVENTBORNE - NORTH AMERICA

Chemistry	Product	Typical Characteristics				Main Application Fields										Sustainability	Typical Properties	
		Solids %	Viscosity (Gardner Holdt)	Solvent	Acid Value (max, solids)	Interior Wall Paints	Exterior Wall Paints	Wall Primers	Plasters and Renders	Elastomeric Coatings	Wood Trim	Wood Primers	Wood Stains	Decorative Metal	Wood Floor Varnishes	Exterior Concrete Coatings	Bio-based Content %	Attributes
ALKYD	CHEMPOL® 801-0066	99	Z1-Z3	-	10	●	●			●	●	●	●	●	●	>65 (2)		High solids alkyd for exterior coating applications.
	CHEMPOL® 801-2164	98	Z3-Z5	-	10	●	●			●	●	●	●			>70 (2)		High solids alkyd with improved adhesion.
	CHEMPOL® 801-6050	65	Y-Z1	Mineral spirits / A100	10					●	●	●	●	●		>35 (2)		Linoleic-rich long oil alkyd with good flexibility.
	CHEMPOL® 801-7961	70	Z1-Z3	Xylene / A100 / Mineral spirits	10					●	●	●	●	●		>40 (2)		Proven performer long oil alkyd for exterior porch and deck stains.
	CHEMPOL® 802-1005	50	Z-Z2	Mineral spirits	10		●			●	●	●	●			>25 (2)		Medium oil soya alkyd with excellent gloss, dry, workability and color retention.
URETHANE MODIFIED OIL	CHEMPOL® 818-0237	80	Z3-Z5	Mineral spirits	NA								●			>35 (2)		High solids urethane oil with good flow and leveling.
URETHANE ALKYD	CHEMPOL® 818-0644	55	Z2-Z4	Mineral spirits	10						●	●				>10 (2)		Light stable aliphatic urethane alkyd.
UV STABILIZER	CHEMPOL® 900-0067	20	<A	A100	NA								●					UV stabilizer solution with good yellowing resistance and gloss retention.

(2) % Measured according to ASTM D6866, C bio-based in the product as supplied

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Arkema has implemented a Medical Policy regarding the use of Arkema products in medical devices applications that are in contact with the body or circulating bodily fluids (<http://www.arkema.com/en/social-responsibility/responsible-product-management/medical-device-policy/index.html>) Arkema has designated medical grades to be used for such medical device applications. Products that have not been designated as medical grades are not authorized by Arkema for use in medical device applications that are in contact with the body or circulating bodily fluids. In addition, Arkema strictly prohibits the use of any Arkema products in medical device applications that are implanted in the body or in contact with bodily fluids or tissues for greater than 30 days. The Arkema trademarks and the Arkema name shall not be used in conjunction with customers' medical devices, including without limitation, permanent or temporary implantable devices, and customers shall not represent to anyone else, that Arkema allows, endorses or permits the use of Arkema products in such medical devices.

It is the sole responsibility of the manufacturer of the medical device to determine the suitability (including biocompatibility) of all raw materials, products and components, including any medical grade Arkema products, in order to ensure that the final end-use product is safe for its end use; performs or functions as intended; and complies with all applicable legal and regulatory requirements (FDA or other national drug agencies). It is the sole responsibility of the manufacturer of the medical device to conduct all necessary tests and inspections and to evaluate the medical device under actual end-use requirements and to adequately advise and warn purchasers, users, and/or learned intermediaries (such as physicians) of pertinent risks and fulfill any postmarket surveillance obligations. Any decision regarding the appropriateness of a particular Arkema material in a particular medical device should be based on the judgment of the manufacturer, seller, the competent authority, and the treating physician.

The product data provided in this document are typical values, intended only as guides should not be considered as sales specifications.

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