

PEARLCOAT® 127K

Thermoplastic Polyurethane Elastomer (Polyester)

Lubrizol Advanced Materials, Inc.

Message:

PEARLCOAT® 127K is a polyester-based TPU, supplied in form of translucent, colourless pellets, combining hardness with excellent low temperature flexibility and medium softening point.

PEARLCOAT® 127K is used in melt coatings on textile substrates for conveyor belts, belting, etc. end uses, obtained by extrusion, calendering or sintering (in this last case the product is previously ground, so as to be in powder form).

General Information			
Features	Flexibility at low temperatures		
	Medium hardness		
Uses	Conveyor belt repair		
	Conveyor accessories		
	Textile applications		
	Coating application		
Agency Ratings	EC 1907/2006 (REACH)		
	FDA 21 CFR 177.2600		
Appearance	Translucent		
	Colorless		
Forms	Particle		
Processing Method	Extrusion		
	Sintering		
	Calendering		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.20	g/cm ³	ASTM D792
20°C	1.20	g/cm ³	ISO 2781
Moisture Content	< 1000	ppm	Internal method
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	92		ASTM D2240, ISO 868
Mechanical	Nominal Value	Unit	Test Method
Abrasion Loss	30.0	mm ³	ISO 4649
Extruder Screw L/D Ratio	25:1		
Extruder Screw Compression Ratio	3:1		
Elastomers	Nominal Value	Unit	Test Method

Tensile Stress			ASTM D412, ISO 527
100% strain	8.00	MPa	ASTM D412, ISO 527
300% strain	16.0	MPa	ASTM D412, ISO 527
Tensile Strength (Yield)	30.0	MPa	ASTM D412, ISO 527
Tensile Elongation (Break)	430	%	ASTM D412, ISO 527
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-26.0	°C	ISO 11357-2
Melting Temperature ¹	155 - 165	°C	Internal method
Extrusion	Nominal Value	Unit	
Drying Temperature	90.0 - 100	°C	
Drying Time	1.0 - 2.0	hr	
Cylinder Zone 1 Temp.	150 - 160	°C	
Cylinder Zone 2 Temp.	160 - 170	°C	
Cylinder Zone 3 Temp.	170 - 180	°C	
Cylinder Zone 4 Temp.	175 - 185	°C	
Die Temperature	175 - 185	°C	
Extrusion instructions			
Cooling: AirSpeed: 50 rpmThickness Die: 0.2 mm			
NOTE			

1. Temperature at which MFI = 10
g/10 min @ 21.6 kg

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