

PEARLCOAT® 125K

Thermoplastic Polyurethane Elastomer (Polyester)

Lubrizol Advanced Materials, Inc.

Message:

PEARLCOAT® 125 K is a polyester-based TPU, supplied in form of translucent, colourless pellets, featuring medium softening point, and consistent quality pellets, low gel content as well low-temperature flexibility.

PEARLCOAT® 125K is used in a wide range of applications:

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).

Extruded films and fabric coatings.

Low melting point carrier for TPU colour and additives masterbatches

General Information			
Features	Low speed solidification crystal point		
	Flexibility at low temperatures		
Uses	Films		
	Conveyor belt repair		
	Conveyor accessories		
	Textile applications		
	Masterbatch		
	Coating application		
	Fabric		
Agency Ratings	EC 1907/2006 (REACH)		
	FDA 21 CFR 177.2600		
Appearance	Translucent		
	Colorless		
Forms	Particle		
Processing Method	Film extrusion		
	Extrusion		
	Sintering		
	Calendering		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
	--	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)	85		ASTM D2240, ISO 868
Mechanical	Nominal Value	Unit	Test Method
Abrasion Loss	25.0	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	6.00	MPa	ASTM D412, ISO 527
300% strain	9.00	MPa	ASTM D412, ISO 527
Tensile Strength (Yield)	30.0	MPa	ASTM D412, ISO 527
Tensile Elongation (Break)	5500	%	ASTM D412, ISO 527
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-27.0	°C	ISO 11357-2
Melting Temperature ¹	135 - 145	°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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