

PEARLCOAT® 162K

Thermoplastic Polyurethane Elastomer (Polyether)

Lubrizol Advanced Materials, Inc.

Message:

PEARLCOAT® 162K is a polyether-based TPU, supplied in form of translucent, colourless pellets, combining hardness with excellent low-temperature flexibility and very good hydrolysis resistance.

PEARLCOAT® 162K is used in melt coatings on textile substrates, for end-uses in industrial coatings (for life-jackets, etc.) obtained by extrusion and calendering. PEARLCOAT® 162K is used for obtaining extruded films and fabric coatings.

General Information			
Features	Flexibility at low temperatures		
	Hydrolysis resistance		
	Medium hardness		
Uses	Textile applications		
	Floating Equipment		
	Coating application		
	Fabric coating		
Agency Ratings	EC 1907/2006 (REACH)		
	FDA 21 CFR 177.2600		
Appearance	Translucent		
	Colorless		
Forms	Particle		
Processing Method	Film extrusion		
	Extrusion coating		
	Calendering		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.11	g/cm ³	ASTM D792, DIN 53479
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	82		ASTM D2240, DIN 53505
Mechanical	Nominal Value	Unit	Test Method
Abrasion Loss	25.0	mm ³	DIN 53516
Extruder Screw L/D Ratio	25:1		
Extruder Screw Compression Ratio	3:1		
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			
100% strain	5.01	MPa	ASTM D412

100% strain	5.00	MPa	DIN 53504
300% strain	10.0	MPa	ASTM D412, DIN 53504
Tensile Strength			
Yield	30.1	MPa	ASTM D412
Yield	30.0	MPa	DIN 53504
Tensile Elongation (Break)	550	%	ASTM D412, DIN 53504
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-42.2	°C	DIN 51007
Melting Temperature ¹	143 - 154	°C	Internal method
Extrusion	Nominal Value	Unit	
Drying Temperature	90.0 - 100	°C	
Drying Time	2.0	hr	
Cylinder Zone 1 Temp.	160 - 170	°C	
Cylinder Zone 2 Temp.	170 - 180	°C	
Cylinder Zone 3 Temp.	180 - 190	°C	
Cylinder Zone 4 Temp.	185 - 195	°C	
Die Temperature	185 - 195	°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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