

Lubrizol Advanced Materials PEARLCOAT® 165K Thermoplastic Polyurethane Elastomer

Category : Polymer , Thermoplastic , Polyurethane, TP , Thermoplastic Polyurethane (TPUR), Polyether Grade

Material Notes:

PEARLCOAT® 165K is a polyether based TPU, supplied in form of translucent, colorless pellets, combining hardness with excellent low-temperature flexibility and very good hydrolysis resistance. PEARLCOAT® 165K is used in melt coatings on textile substrates, for end-uses in industrial coatings (for life-jackets, etc.) obtained by extrusion and calendering. All information provided by Merquinsa

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-Advanced-Materials-PEARLCOAT-165K-Thermoplastic-Polyurethane-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.12 g/cc	1.12 g/cc	ASTM D792
Melt Flow	10 g/10 min @Load 21.6 kg	10 g/10 min @Load 47.6 lb	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	90	90	ASTM D2240
Tensile Strength, Yield	30.05 MPa	4359 psi	ASTM D412
Elongation at Break	450 %	450 %	ASTM D412
100% Modulus	0.007012 GPa	1.017 ksi	ASTM D412
300% Modulus	0.01200 GPa	1.740 ksi	ASTM D412
Abrasion	25	25	loss (mm ³); DIN 53.516
Compression Set	25 % @Temperature 22.8 Â°C, Time 252000 sec	25 % @Temperature 73.0 Â°F, Time 70.0 hour	ASTM D395
	35 % @Temperature 70.0 Â°C, Time 86400 sec	35 % @Temperature 158 Â°F, Time 24.0 hour	ASTM D395

Thermal Properties	Metric	English	Comments
Melting Point	165 - 175 Â°C	329 - 347 Â°F	MQSA 111
Glass Transition Temp, Tg	-42.8 Â°C	-45.0 Â°F	DSC, 10Â°C/min; DIN 51.007

Processing Properties	Metric	English	Comments
Zone 1	149 - 160 Â°C	300 - 320 Â°F	
Zone 2	160 - 171 Â°C	320 - 340 Â°F	
Zone 3	168 - 179 Â°C	335 - 355 Â°F	
Zone 4	174 - 185 Â°C	345 - 365 Â°F	
Die Temperature	345 - 365 Â°C	653 - 689 Â°F	

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