

Lubrizol Advanced Materials PEARLCOAT® 126K Thermoplastic Polyurethane Elastomer (discontinued **)

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

Material Notes:

PEARLCOAT® 126K is a polyester-based TPU, supplied in form of translucent, colorless pellets, combining hardness with excellent low temperature flexibility and medium softening point. PEARLCOAT® 126K is used in melt coatings on textile substrates, for conveyor belts, belting, among other end uses, obtained by extrusion, calendering or sintering (in this last case the product is previously ground, so as to be in powder form). PEARLCOAT® 126K is used for obtaining extruded films and fabric coatings. All information provided by Merquinsa

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-Advanced-Materials-PEARLCOAT-126K-Thermoplastic-Polyurethane-Elastomer-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 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	94	94	ASTM D2240
Tensile Strength, Yield	35.00 MPa	5076 psi	ASTM D412
Elongation at Break	420 %	420 %	ASTM D412
100% Modulus	0.01302 GPa	1.889 ksi	ASTM D412
300% Modulus	0.02504 GPa	3.632 ksi	ASTM D412
Abrasion	40	40	loss (mm ³); DIN 53.516

Thermal Properties	Metric	English	Comments
Melting Point	155 - 165 °C	311 - 329 °F	MQSA 111
Glass Transition Temp, Tg	-22.2 °C	-8.00 °F	DSC, 10°C/min; DIN 51.007

Processing Properties	Metric	English	Comments
Zone 1	150 - 160 °C	302 - 320 °F	
Zone 2	160 - 170 °C	320 - 338 °F	
Zone 3	170 - 180 °C	338 - 356 °F	
Zone 4			

Processing Properties	175 - 185 °C Metric	347 - 365 °F English	Comments
Die Temperature	175 - 185 °C	347 - 365 °F	
Moisture Content	<= 0.10 %	<= 0.10 %	MQSA 44

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