

Lubrizol Advanced Materials PEARLCOAT® 127K Thermoplastic Polyurethane Elastomer

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

Material Notes:

PEARLCOAT® 127K is a polyester based TPU, supplied in form of translucent, colorless 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, 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). All information provided by Merquinsa

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-Advanced-Materials-PEARLCOAT-127K-Thermoplastic-Polyurethane-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Melt Flow	10 g/10 min	10 g/10 min	
	@Load 21.6 kg	@Load 47.6 lb	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	92	92	ASTM D2240
Tensile Strength, Yield	30.06 MPa	4360 psi	ASTM D412
Elongation at Break	430 %	430 %	ASTM D412
100% Modulus	0.008012 GPa	1.162 ksi	ASTM D412
300% Modulus	0.01603 GPa	2.325 ksi	ASTM D412
Abrasion	30	30	loss (mm ³); DIN 53.516

Thermal Properties	Metric	English	Comments
Melting Point	155 - 165 Â°C	311 - 329 Â°F	MQSA 111
Glass Transition Temp, Tg	-26.1 Â°C	-15.0 Â°F	DSC, 10Â°C/min; DIN 51.007

Processing Properties	Metric	English	Comments
Zone 1	150 - 160 Â°C	302 - 320 Â°F	
Zone 2	160 - 170 Â°C	320 - 338 Â°F	
Zone 3	170 - 180 Â°C	338 - 356 Â°F	
Zone 4	175 - 185 Â°C	347 - 365 Â°F	

Processing Properties	Metric	English	Comments
Moisture Content	<= 0.10 %	<= 0.10 %	MQSA 44

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