

Lubrizol Advanced Materials PEARLTHANE® 12K85LB Thermoplastic Polyurethane Elastomer (discontinued **)

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

Material Notes:

PEARLTHANE® 12K85 LB is a standard polyester-based TPU with a lubricating additive, supplied in form of translucent, colourless or slightly yellowish pellets, combining hardness with excellent mechanical properties. It is intended for extrusion related applications. All information provided by Merquinsa

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-Advanced-Materials-PEARLTHANE-12K85LB-Thermoplastic-Polyurethane-Elastomer-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.19 g/cc	1.19 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	83	83	ASTM D2240
Tensile Strength, Yield	35.00 MPa	5076 psi	ASTM D412
Elongation at Break	590 %	590 %	ASTM D412
100% Modulus	0.00500 GPa	0.725 ksi	ASTM D412
300% Modulus	0.008998 GPa	1.305 ksi	ASTM D412
Tear Strength	80.6 kN/m	460 pli	ASTM D624 (Die C)
Abrasion	30	30	loss (mm ³); DIN 53.516

Thermal Properties	Metric	English	Comments
Melting Point	138 - 148 °C	280 - 298 °F	MQSA 111
Glass Transition Temp, Tg	-27.8 °C	-18.0 °F	DSC, 18°F/min; DIN 51.007

Processing Properties	Metric	English	Comments
Zone 1	149 - 179 °C	300 - 355 °F	
Zone 2	160 - 191 °C	320 - 375 °F	
Zone 3	171 - 199 °C	340 - 390 °F	

Zone 4 Processing Properties	177 - 207 °C Metric	350 - 405 °F English	Comments
Die Temperature	177 - 199 °C	350 - 390 °F	
Moisture Content	<= 0.10 %	<= 0.10 %	MQSA 44

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