

Lubrizol Advanced Materials PEARLTHANE® 12K85A Thermoplastic Polyurethane Elastomer (discontinued **)

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

Material Notes:

PEARLTHANE® 12K85A is a standard polyester-based TPU, supplied in form of translucent, colourless or slightly yellowish pellets, combining hardness with excellent mechanical properties. It can be extruded. PEARLTHANE® 12K85A is used for the extrusion of films in general and especially adhesive films, either flat or blown films. All information provided by Merquinsa

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-Advanced-Materials-PEARLTHANE-12K85A-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	85	85	ASTM D2240
Tensile Strength	30.05 MPa	4359 psi	ASTM D412
Elongation at Break	540 %	540 %	ASTM D412
100% Modulus	0.00500 GPa	0.725 ksi	ASTM D412
300% Modulus	0.009011 GPa	1.307 ksi	ASTM D412
Tear Strength	75.4 kN/m	430 pli	ASTM D624 (Die C)
Abrasion	25	25	loss (mm³); DIN 53.516

Thermal Properties	Metric	English	Comments
Melting Point	160 - 171 °C	320 - 340 °F	MQSA 111
Glass Transition Temp, Tg	-30.0 °C	-22.0 °F	DSC, 10°C/min; DIN 51.007

Processing Properties	Metric	English	Comments
Zone 1	150 - 180 °C	302 - 356 °F	
Zone 2	160 - 190 °C	320 - 374 °F	
Zone 3	170 - 200 °C	338 - 392 °F	

Zone 4 Processing Properties	175 - 210 °C Metric	347 - 410 °F English	Comments
Die Temperature	175 - 200 °C	347 - 392 °F	
Moisture Content	<= 0.10 %	<= 0.10 %	MQSA 44

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