

Lubrizol Advanced Materials PEARLTHANE® 16N85UV Thermoplastic Polyurethane Elastomer (discontinued **)

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

Material Notes:

PEARLTHANE® 16N85UV is a polyether-based TPU, containing an anti-UV additive, supplied in form of translucent, colorless, combining hardness with excellent mechanical properties and excellent hydrolysis resistance. It can be extruded and injection-molded.

PEARLTHANE® 16N85UV when extruded, is used for making films, cables, tubing and profiles. When processed by injection molding, it can be used for making technical parts. All information provided by Merquinsa

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-Advanced-Materials-PEARLTHANE-16N85UV-Thermoplastic-Polyurethane-Elastomer-nbspdiscontinued-.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	87	87	ASTM D2240
Tensile Strength	33.79 MPa	4901 psi	ASTM D-412
Elongation at Break	570 %	570 %	ASTM D412
100% Modulus	0.00600 GPa	0.870 ksi	ASTM D412
300% Modulus	0.01100 GPa	1.595 ksi	ASTM D412
Tear Strength	90.3 kN/m	515 pli	ASTM D624 (Die C)
Abrasion	25	25	loss (mm ³); DIN 53.516
Compression Set	24 % @Temperature 23.0 °C, Time 252000 sec	24 % @Temperature 73.4 °F, Time 70.0 hour	ASTM D395B
	35 % @Temperature 70.0 °C, Time 86400 sec	35 % @Temperature 158 °F, Time 24.0 hour	ASTM D395B

Thermal Properties	Metric	English	Comments
Melting Point	171 - 181 °C	340 - 358 °F	MQSA 111
Glass Transition Temp, Tg			DSC, 18°F/min; DIN 51.007

Thermal Properties	-47.8 °C Metric	-54.0 °F English	Comments
Processing Properties	Metric	English	Comments
Feed Temperature	195 °C	383 °F	
Nozzle Temperature	200 °C	392 °F	
Zone 1	185 - 200 °C	365 - 392 °F	
Zone 2	200 - 230 °C	392 - 446 °F	
Zone 3	210 - 230 °C	410 - 446 °F	
Zone 4	200 - 220 °C	392 - 428 °F	
Die Temperature	190 - 195 °C	374 - 383 °F	
Mold Temperature	35.0 °C	95.0 °F	
Moisture Content	<= 0.10 %	<= 0.10 %	MQSA 44
Screw Speed	50 rpm	50 rpm	

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