

Lubrizol Advanced Materials PEARLTHANE® D16N90UV Thermoplastic Polyurethane Elastomer (discontinued **)

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

Material Notes:

PEARLTHANE® D16N90UV is a polyether-based TPU, containing an anti-UV additive, supplied in form of transparent, colorless pellets, offering adequate hardness, excellent mechanical properties and good hydrolysis and microbial resistance. PEARLTHANE® D16N90UV is designed for extrusion and injection processes. PEARLTHANE® D16N90UV is especially designed for extrusion of tubes and profiles and injection molding of technical parts where excellent mechanical properties at low temperature, hydrolysis and microbe resistance are required. All information provided by Merquinsa

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-Advanced-Materials-PEARLTHANE-D16N90UV-Thermoplastic-Polyurethane-Elastomer-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.15 g/cc	1.15 g/cc	ASTM D792
Melt Flow	10 g/10 min	10 g/10 min	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	90	90	ASTM D2240
Tensile Strength, Yield	45.0 MPa	6530 psi	ASTM D412
Elongation at Break	450 %	450 %	ASTM D412
100% Modulus	0.00800 GPa	1.16 ksi	ASTM D412
300% Modulus	0.0200 GPa	2.90 ksi	ASTM D412
Tear Strength	130 kN/m	742 pli	ASTM D624 (Die C)
Abrasion	40	40	loss (mm ³); DIN 53.516

Thermal Properties	Metric	English	Comments
Melting Point	170 - 180 °C	338 - 356 °F	MQSA 111

Optical Properties	Metric	English	Comments
Transmission, Visible	90 %	90 %	transparent; thickness not quantified

Processing Properties	Metric	English	Comments
Feed Temperature	195 °C	383 °F	

Nozzle Temperature Processing Properties	205 °C Metric	401 °F English	Comments
Zone 1	210 °C	410 °F	
Zone 2	215 - 225 °C	419 - 437 °F	
Zone 3	230 - 240 °C	446 - 464 °F	
Zone 4	200 - 210 °C	392 - 410 °F	
Die Temperature	200 - 210 °C	392 - 410 °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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