

Lubrizol Advanced Materials PEARLTHANE® D16N98UV Thermoplastic Polyurethane Elastomer

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

Material Notes:

Pearlthane® D16N98UV is a polyether-based TPU, supplied in form of transparent, colorless pellets, combining high hardness with excellent mechanical properties and good hydrolysis and microbial resistance. Pearlthane® D16N98UV is especially designed for extrusion processes. Pearlthane® D16N98UV is especially designed for extrusion of tubes (e.g. pneumatic tubing) and profiles 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-D16N98UV-Thermoplastic-Polyurethane-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	ASTM D792
Melt Flow	10 g/10 min @Load 21.6 kg, Temperature 188 - 198 °C	10 g/10 min @Load 47.6 lb, Temperature 370 - 388 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	90	90	ASTM D2240
Hardness, Shore D	48	48	ASTM D2240
Tensile Strength, Yield	31.0 MPa	4500 psi	ASTM D412
Elongation at Break	380 %	380 %	ASTM D412
100% Modulus	0.0120 GPa	1.74 ksi	ASTM D412
300% Modulus	0.0240 GPa	3.48 ksi	ASTM D412
Tear Strength	140 kN/m	799 pli	ASTM D624 (Die C)
Abrasion	30	30	loss (mm ³); ISO 4649

Thermal Properties	Metric	English	Comments
Melting Point	188 - 198 °C	370 - 388 °F	MQSA 111
Glass Transition Temp, Tg	-48.0 °C	-54.4 °F	DSC, 10°C/min; ISO 11357-2

Processing Properties	Metric	English	Comments
Zone 1	210 °C	410 °F	

Processing Properties	Metric	English	Comments
Zone 1	175 - 225 Â°C	345 - 437 Â°F	
Zone 3	230 - 240 Â°C	446 - 464 Â°F	
Zone 4	200 - 210 Â°C	392 - 410 Â°F	
Die Temperature	200 - 210 Â°C	392 - 410 Â°F	
Moisture Content	<= 0.10 %	<= 0.10 %	MQSA 44
Screw Speed	50 rpm	50 rpm	

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