

Lubrizol Advanced Materials PEARLTHANE® 16N87 Thermoplastic Polyurethane Elastomer (discontinued **)

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

Material Notes:

PEARLTHANE® D16N87 is a polyether-based TPU, supplied in form of translucent, colourless or slightly yellowish pellets, offering adequate hardness with superior hydrolysis resistance and improved extrusion processing. Ideally used for applications where excellent microbial resistance and flexibility are required, such as cables and special hoses. It can be easily extruded and injected. PEARLTHANE® D16N87 when extruded, is used for making films, cables, tubing and profiles. When processed by injection moulding, 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-16N87-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, Yield	34.5 MPa	5000 psi	ASTM D412
Elongation at Break	590 %	590 %	ASTM D412
100% Modulus	0.006998 GPa	1.015 ksi	ASTM D412
300% Modulus	0.01300 GPa	1.886 ksi	ASTM D412
Tear Strength	105 kN/m	600 pli	ASTM D624 (Die C)
Abrasion	25	25	loss (mm ³); DIN 53.516
Compression Set	24 % @Temperature 22.8 °C, Time 252000 sec	24 % @Temperature 73.0 °F, Time 70.0 hour	ASTM D395
	35 % @Temperature 70.0 °C, Time 86400 sec	35 % @Temperature 158 °F, Time 24.0 hour	ASTM D395

Thermal Properties	Metric	English	Comments
Melting Point	171 - 181 °C	339 - 357 °F	MQSA 111

Thermal Properties	Metric	English	Comments
Thermal Transition Temp, Tg			100, 105, 110 min, DIN 51.007
Processing Properties	Metric	English	Comments
Feed Temperature	193 °C	380 °F	
Nozzle Temperature	199 °C	390 °F	
Zone 1	204 °C	400 °F	Compression Zone
Zone 2	210 °C	410 °F	Metering Zone
Mold Temperature	35.0 °C	95.0 °F	
Moisture Content	<= 0.050 %	<= 0.050 %	MQSA 44
Injection Pressure	11.0 MPa	1600 psi	
Hold Pressure	4.83 MPa	700 psi	
	@Time 15.0 sec	@Time 0.00417 hour	
Cycle Time - Injection	2.5 sec	2.5 sec	
Cycle Time - Cooling	38 sec	38 sec	
Screw Speed	130 rpm	130 rpm	

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