

## Lubrizol Advanced Materials PEARLTHANE® 16N92 Thermoplastic Polyurethane Elastomer (discontinued \*\*)

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

### Material Notes:

PEARLTHANE® 16N92 is a polyether based TPU, supplied in form of translucent, colorless pellets, combining hardness with excellent mechanical properties and excellent hydrolysis resistance. It can be extruded and injection-molded. PEARLTHANE® 16N92 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-16N92-Thermoplastic-Polyurethane-Elastomer-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_Lubrizol-Advanced-Materials-PEARLTHANE-16N92-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	92	92	ASTM D2240
Tensile Strength, Yield	40.1 MPa	5810 psi	ASTM D412
Elongation at Break	520 %	520 %	ASTM D412
100% Modulus	0.00896 GPa	1.30 ksi	ASTM D412
300% Modulus	0.0170 GPa	2.47 ksi	ASTM D412
Tear Strength	125 kN/m	715 pli	ASTM D624 (Die C)
Abrasion	25	25	loss (mm <sup>3</sup> ); DIN 53.516
Compression Set	27 % @Temperature 22.8 °C, Time 252000 sec	27 % @Temperature 73.0 °F, Time 70.0 hour	ASTM D395
	40 % @Temperature 70.0 °C, Time 86400 sec	40 % @Temperature 158 °F, Time 24.0 hour	ASTM D395

Thermal Properties	Metric	English	Comments
Melting Point	182 - 193 °C	360 - 379 °F	MQSA 111

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	<= 0.10 %	<= 0.10 %	MQSA 44
Injection Pressure	11.0 MPa	1600 psi	
Hold Pressure	4.83 MPa @Time 15.0 sec	700 psi @Time 0.00417 hour	
Cycle Time - Injection	3.7 sec	3.7 sec	
Cycle Time - Cooling	38 sec	38 sec	
Screw Speed	130 rpm	130 rpm	

## Contact Songhan Plastic Technology Co.,Ltd.

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