

## Lubrizol Advanced Materials PEARLTHANE® 16N80 Thermoplastic Polyurethane Elastomer (discontinued \*\*)

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

### Material Notes:

PEARLTHANE® 16N80 is a polyether-based TPU, supplied in form of translucent, colourless or slightly yellowish pellets, combining hardness with excellent mechanical properties and excellent hydrolysis and microbe resistance. It can be extruded and injection-moulded. PEARLTHANE® 16N80 can be used for blown- and cast 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-16N80-Thermoplastic-Polyurethane-Elastomer-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_Lubrizol-Advanced-Materials-PEARLTHANE-16N80-Thermoplastic-Polyurethane-Elastomer-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.09 g/cc	1.09 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	81	81	ASTM D2240
Tensile Strength	35.00 MPa	5076 psi	ASTM D412
Elongation at Break	760 %	760 %	ASTM D412
100% Modulus	0.00500 GPa	0.725 ksi	ASTM D412
300% Modulus	0.00800 GPa	1.16 ksi	ASTM D412
Tear Strength	80.6 kN/m	460 pli	ASTM D624 (Die C)
Abrasion	20	20	loss (mm <sup>3</sup> ); DIN 53.516
Compression Set	30 % @Temperature 22.8 °C, Time 252000 sec	30 % @Temperature 73.0 °F, Time 70.0 hour	ASTM D395
	42 % @Temperature 70.0 °C, Time 86400 sec	42 % @Temperature 158 °F, Time 24.0 hour	ASTM D395

Thermal Properties	Metric	English	Comments
Melting Point	160 - 170 °C	320 - 338 °F	MQSA 111
Glass Transition Temp, Tg			DSC, 10°C/min; DIN 51.007

Thermal Properties	-47.2 °C Metric	-53.0 °F English	Comments
Processing Properties	Metric	English	Comments
Feed Temperature	179 °C	355 °F	
Nozzle Temperature	193 °C	380 °F	
Zone 1	179 - 193 °C	355 - 380 °F	
Zone 2	191 - 210 °C	375 - 410 °F	
Zone 3	199 - 221 °C	390 - 430 °F	
Zone 4	185 - 199 °C	365 - 390 °F	
Die Temperature	185 - 193 °C	365 - 380 °F	
Mold Temperature	35.0 °C	95.0 °F	
Moisture Content	<= 0.10 %	<= 0.10 %	MQSA 44
Screw Speed	50 rpm	50 rpm	

## Contact Songhan Plastic Technology Co.,Ltd.

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