

## Lubrizol Advanced Materials Pearlthane® Clear 15N70 Polyether based TPU

Category : Polymer , Thermoplastic , Elastomer, TPE , Polyurethane, TP , Thermoplastic Polyurethane, Elastomer, Ether Grade

### Material Notes:

PEARLTHANE® CLEAR 15N70 is a polyether copolymer-based TPU with Shore 72 A hardness, free of plasticizer, supplied in form of translucent, colorless pellets with very low yellowness index. PEARLTHANE® CLEAR 15N70 combines low hardness and high elasticity with excellent mechanical properties and excellent hydrolysis resistance. It can be extruded and injection-molded. Information provided by Merquinsa.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lubrizol-Advanced-Materials-Pearlthane-Clear-15N70-Polyether-based-TPU.php](http://www.lookpolymers.com/polymer_Lubrizol-Advanced-Materials-Pearlthane-Clear-15N70-Polyether-based-TPU.php)

Physical Properties	Metric	English	Comments
Density	1.07 g/cc	0.0387 lb/in <sup>3</sup>	ASTM D792
High Load Melt Index	10 g/10 min @Load 21.6 kg	10 g/10 min @Load 47.6 lb	at listed melt temp

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	72	72	ASTM D2240
Tensile Strength, Yield	30.1 MPa	4360 psi	ASTM D412
Elongation at Break	710 %	710 %	ASTM D624
100% Modulus	0.00301 GPa	0.436 ksi	ASTM D412
300% Modulus	0.00501 GPa	0.727 ksi	ASTM D412
Tear Strength	64.9 kN/m	370 pli	ASTM D624 DIE C
Abrasion	23	23	mm <sup>3</sup> ; DIN 53.517
Compression Set	30 % @Temperature 22.8 °C, Time 252000 sec	30 % @Temperature 73.0 °F, Time 70.0 hour	ASTM D395
	60 % @Temperature 70.0 °C, Time 86400 sec	60 % @Temperature 158 °F, Time 24.0 hour	ASTM D395

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	-52.8 °C	-63.0 °F	DIN 51.007

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

Processing Properties	Metric	English	Comments
Feed Temperature	180 Â°C	356 Â°F	
Nozzle Temperature	200 Â°C	392 Â°F	
Zone 1	170 - 190 Â°C	338 - 374 Â°F	
Zone 2	180 - 205 Â°C	356 - 401 Â°F	
Zone 3	190 - 215 Â°C	374 - 419 Â°F	
Zone 4	180 - 190 Â°C	356 - 374 Â°F	
Die Temperature	185 - 190 Â°C	365 - 374 Â°F	
Mold Temperature	35.0 Â°C	95.0 Â°F	
Moisture Content	<= 0.10 %	<= 0.10 %	MQSA 44

Descriptive Properties	Value	Comments
Compression Zone	190Â°C	
Metering Zone	200Â°C	

## Contact Songhan Plastic Technology Co.,Ltd.

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