

Lubrizol Advanced Materials Pearlthane® 12H92E Thermoplastic Polyurethane Elastomer

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

Material Notes:

Pearlthane® 12H92E is a special polyester-based TPU, supplied in form of translucent, colorless pellets, combining hardness with excellent processability and excellent low temperature performance. This grade has been specially designed for mechanically demanding applications where excellent mechanical properties are required, such as timing belts..Information provided by Merquinsa.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-Advanced-Materials-Pearlthane-12H92E-Thermoplastic-Polyurethane-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.19 g/cc	1.19 g/cc	ASTM D792
Melt Flow	10 g/10 min @Load 21.6 kg, Temperature 125 - 135 °C	10 g/10 min @Load 47.6 lb, Temperature 257 - 275 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	91	91	ASTM D2240
Tensile Strength, Yield	40.00 MPa	5801 psi	ASTM D412
Elongation at Break	505 %	505 %	ASTM D412
100% Modulus	0.006998 GPa	1.015 ksi	ASTM D412
300% Modulus	0.01500 GPa	2.176 ksi	ASTM D412
Tear Strength	130 kN/m	742 pli	ASTM D624 DIE C
Abrasion	25	25	[mm^3]; ISO 4649

Thermal Properties	Metric	English	Comments
Melting Point	190 - 200 °C	374 - 392 °F	MQSA 111
Glass Transition Temp, Tg	-42.8 °C	-45.0 °F	DSC, 50°F/min; ISO 11357-2

Processing Properties	Metric	English	Comments
Zone 1	200 - 210 °C	392 - 410 °F	
Zone 2	210 - 220 °C	410 - 428 °F	
Zone 3	220 - 230 °C	428 - 446 °F	

Processing Properties	Metric20 Å°C	English20 Å°F	Comments
Die Temperature	200 - 210 Å°C	392 - 410 Å°F	
Moisture Content	<= 0.10 %	<= 0.10 %	MQSA 44
Screw Speed	40 rpm	40 rpm	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China