

Lubrizol Advanced Materials PEARLTHANE® 16N95UV Thermoplastic Polyurethane Elastomer

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

Material Notes:

PEARLTHANE® 16N95UV is a polyether-based TPU, containing an anti-UV additive, supplied in form of translucent, colorless pellets, combining hardness with excellent mechanical properties and excellent hydrolysis and microbial resistance. It can be both extruded and injection-molded. PEARLTHANE® 16N95UV when extruded, can be used for making (pneumatic) tubes, profiles and cables. When processed by injection molding, can be used for technical parts. All information provided by Merquinsa

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-Advanced-Materials-PEARLTHANE-16N95UV-Thermoplastic-Polyurethane-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.17 g/cc	1.17 g/cc	ASTM D792
Melt Flow	10 g/10 min	10 g/10 min	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	94	94	ASTM D2240
Tensile Strength, Yield	40.0 MPa	5800 psi	ASTM D412
Elongation at Break	575 %	575 %	ASTM D412
100% Modulus	0.0110 GPa	1.60 ksi	ASTM D412
300% Modulus	0.0160 GPa	2.32 ksi	ASTM D412
Tear Strength	130 kN/m	742 pli	ASTM D624 (Die C)
Abrasion	40	40	loss (mm ³); DIN 53.516
Compression Set	30 %	30 %	ASTM D395B
	@Temperature 23.0 °C, Time 252000 sec	@Temperature 73.4 °F, Time 70.0 hour	
	44 %	44 %	ASTM D395B
	@Temperature 70.0 °C, Time 86400 sec	@Temperature 158 °F, Time 24.0 hour	

Thermal Properties	Metric	English	Comments
Melting Point	178 - 188 °C	352 - 370 °F	MQSA 111
Glass Transition Temp, Tg	-31.1 °C	-24.0 °F	DSC, 50°F/10min; ISO 11357-2

Processing Properties	Metric	English	Comments
Feed Temperature	200 Â°C	392 Â°F	
Nozzle Temperature	210 Â°C	410 Â°F	
Zone 1	180 - 195 Â°C	356 - 383 Â°F	
Zone 2	190 - 210 Â°C	374 - 410 Â°F	
Zone 3	200 - 220 Â°C	392 - 428 Â°F	
Zone 4	190 - 210 Â°C	374 - 410 Â°F	
Die Temperature	185 - 195 Â°C	365 - 383 Â°F	
Mold Temperature	35.0 Â°C	95.0 Â°F	
Moisture Content	<= 0.10 %	<= 0.10 %	MQSA 44
Screw Speed	50 rpm	50 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