

Lubrizol Advanced Materials PEARLTHANE® 11T85UV Thermoplastic Polyurethane Elastomer

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

Material Notes:

PEARLTHANE® 11T85UV is a UV resistant polycaprolactone copolyester based TPU, supplied in form of translucent, colourless or slightly yellowish pellets, featuring adequate hardness with excellent flow and mechanical properties. It can be injection-molded and coextruded. PEARLTHANE® 11T85UV when processed by injection moulding, can be used for making shoe soles, screens (mining ind.), automotive parts, etc. PEARLTHANE® 11T85UV when processed by coextrusion, can be used for making wire-bond hoses (thanks to its excellent adhesion to flexible PVC) and a variety of technical components. All information provided by Merquinsa

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-Advanced-Materials-PEARLTHANE-11T85UV-Thermoplastic-Polyurethane-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.16 g/cc	1.16 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	86	86	ASTM D2240
Tensile Strength, Yield	40.00 MPa	5801 psi	ASTM D412
Elongation at Break	630 %	630 %	ASTM D412
100% Modulus	0.00600 GPa	0.870 ksi	ASTM D412
300% Modulus	0.0100 GPa	1.45 ksi	ASTM D412
Tear Strength	90.3 kN/m	515 pli	ASTM D624 (Die C)
Abrasion	25	25	loss (mm ³); DIN 53.516
Compression Set	20 % @Temperature 22.8 °C, Time 252000 sec	20 % @Temperature 73.0 °F, Time 70.0 hour	ASTM D395
	35 % @Temperature 70.0 °C, Time 86400 sec	35 % @Temperature 158 °F, Time 24.0 hour	ASTM D395

Thermal Properties	Metric	English	Comments
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Melting Point Thermal Properties	177 - 188 Å°C Metric	350 - 370 Å°F English	MQSA 111 Comments
Glass Transition Temp, Tg	-40.0 Å°C	-40.0 Å°F	DSC, 10Å°C/min; DIN 51.007

Processing Properties	Metric	English	Comments
Feed Temperature	193 Å°C	380 Å°F	
Nozzle Temperature	210 Å°C	410 Å°F	
Zone 1	199 Å°C	390 Å°F	Compression Zone
Zone 2	210 Å°C	410 Å°F	Metering Zone
Mold Temperature	35.0 Å°C	95.0 Å°F	
Moisture Content	<= 0.10 %	<= 0.10 %	MQSA 44
Injection Pressure	10.0 MPa	1450 psi	
Hold Pressure	6.00 MPa @Time 15.0 sec	870 psi @Time 0.00417 hour	
Cycle Time - Injection	2.8 sec	2.8 sec	
Cycle Time - Cooling	10 sec	10 sec	
Screw Speed	105 rpm	105 rpm	

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