

Lubrizol Advanced Materials PEARLTHANE® 11T92EM Thermoplastic Polyurethane Elastomer

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

Material Notes:

PEARLTHANE® 11T92EM is a polyester based TPU, supplied in form of translucent, colourless or slightly yellowish pellets, combining hardness with excellent mechanical properties. It can be extruded and injection-moulded. PEARLTHANE® 11T92EM can be extruded into profiles, belts, tubes and film. In the case of injection moulding, this grade is only recommended for certain specific applications, e.g. when large, hard-to-fill mould cavities are used. All information provided by Merquinsa

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-Advanced-Materials-PEARLTHANE-11T92EM-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	91	91	ASTM D2240
Tensile Strength, Yield	35.00 MPa	5076 psi	ASTM D412
Elongation at Break	630 %	630 %	ASTM D412
100% Modulus	0.00800 GPa	1.16 ksi	ASTM D412
300% Modulus	0.0120 GPa	1.74 ksi	ASTM D412
Tear Strength	99.9 kN/m	570 pli	ASTM D624 (Die C)
Abrasion	25	25	loss (mm ³); DIN 53.516
Compression Set	25 % @Temperature 22.8 °C, Time 252000 sec	25 % @Temperature 73.0 °F, Time 70.0 hour	ASTM D395
	45 % @Temperature 70.0 °C, Time 86400 sec	45 % @Temperature 158 °F, Time 24.0 hour	ASTM D395

Thermal Properties	Metric	English	Comments
Melting Point	179 - 191 °C	355 - 375 °F	MQSA 111

Thermal Properties	Metric	English	Comments
Class Transition Temp, Tg	-37.8 Â°C	-36.0 Â°F	DSC 10Â°C/min; DIN 51.007
Processing Properties	Metric	English	Comments
Feed Temperature	196 Â°C	385 Â°F	
Nozzle Temperature	210 Â°C	410 Â°F	
Zone 1	199 Â°C	390 Â°F	Compression Zone
Zone 2	210 Â°C	410 Â°F	Metering Zone
Mold Temperature	35.0 Â°C	95.0 Â°F	
Moisture Content	<= 0.10 %	<= 0.10 %	MQSA 44
Injection Pressure	8.62 MPa	1250 psi	
Hold Pressure	4.96 MPa @Time 15.0 sec	720 psi @Time 0.00417 hour	
Cycle Time - Injection	3.0 sec	3.0 sec	
Cycle Time - Cooling	30 sec	30 sec	
Screw Speed	180 rpm	180 rpm	

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