

Lubrizol Advanced Materials PEARLTHANE® D11H92S Thermoplastic Polyurethane Elastomer

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

Material Notes:

PEARLTHANE® D11H92S is a high performance polycaprolactone copolyester based TPU, supplied in form of translucent, colorless pellets, featuring excellent flow and mechanical properties and an outstanding low compression set value and high temperature resistance.

Product recommended for injection-molding applications with an extremely short cycle time. All information provided by Merquinsa

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-Advanced-Materials-PEARLTHANE-D11H92S-Thermoplastic-Polyurethane-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.15 g/cc	1.15 g/cc	ASTM D792
Melt Flow	10 g/10 min @Load 21.6 kg, Temperature 201 - 211 °C	10 g/10 min @Load 47.6 lb, Temperature 394 - 412 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	92	92	ASTM D2240
Tensile Strength, Yield	46.00 MPa	6672 psi	ASTM D412
Elongation at Break	460 %	460 %	ASTM D412
100% Modulus	0.009997 GPa	1.450 ksi	ASTM D412
300% Modulus	0.02100 GPa	3.046 ksi	ASTM D412
Tear Strength	156 kN/m	890 pli	ASTM D624 (Die C)
Abrasion	20	20	[mm³]; ISO 4649
Compression Set	13 % @Temperature 23.0 °C, Time 252000 sec	13 % @Temperature 73.4 °F, Time 70.0 hour	ASTM D395B
	19 % @Temperature 70.0 °C, Time 79200 sec	19 % @Temperature 158 °F, Time 22.0 hour	ASTM D395B
	36 % @Temperature 100 °C, Time 252000 sec	36 % @Temperature 212 °F, Time 70.0 hour	ASTM D395B

Thermal Properties	Metric	English	Comments
Melting Point	201 - 211 Â°C	394 - 412 Â°F	MQSA 111
Glass Transition Temp, Tg	-43.0 Â°C	-45.4 Â°F	DSC, 10Â°C/min; ISO 11357-2

Processing Properties	Metric	English	Comments
Feed Temperature	190 Â°C	374 Â°F	
Nozzle Temperature	200 Â°C	392 Â°F	
Zone 1	195 Â°C	383 Â°F	Compression Zone
Zone 2	195 Â°C	383 Â°F	Metering Zone
Mold Temperature	35.0 Â°C	95.0 Â°F	
Moisture Content	<= 0.10 %	<= 0.10 %	MQSA 44

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