

Lubrizol Advanced Materials PEARLTHANE® D11H95S Thermoplastic Polyurethane Elastomer

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

Material Notes:

PEARLTHANE® D11H95S 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-D11H95S-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	10 g/10 min	
	@Load 21.6 kg, Temperature 215 - 225 °C	@Load 46.6 lb, Temperature 419 - 437 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	92	92	ASTM D2240
Hardness, Shore D	47	47	ASTM D2240
Tensile Strength, Yield	50.00 MPa	7252 psi	ASTM D412
Elongation at Break	505 %	505 %	ASTM D412
100% Modulus	0.01100 GPa	1.595 ksi	ASTM D412
300% Modulus	0.02200 GPa	3.191 ksi	ASTM D412
Tear Strength	166 kN/m	948 pli	ASTM D624 (Die C)
Abrasion	25	25	[mm ³]; ISO 4649
Compression Set	15 %	15 %	
	@Temperature 23.0 °C, Time 252000 sec	@Temperature 73.4 °F, Time 70.0 hour	ASTM D395B
	21 %	21 %	
	@Temperature 70.0 °C, Time 79200 sec	@Temperature 158 °F, Time 22.0 hour	ASTM D395B
	32 %	32 %	ASTM D395B

Mechanical Properties	Metric @Temperature 100 Â°C, Time 252000 sec	English @Temperature 212 Â°F, Time 70.0 hour	Comments
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Thermal Properties	Metric	English	Comments
Melting Point	215 - 225 Â°C	419 - 437 Â°F	MQSA 111
Glass Transition Temp, Tg	-36.1 Â°C	-33.0 Â°F	DSC, 50Â°F / min.; ISO11357-2

Processing Properties	Metric	English	Comments
Feed Temperature	200 Â°C	392 Â°F	
Nozzle Temperature	210 Â°C	410 Â°F	
Zone 1	205 Â°C	401 Â°F	Compression Zone
Zone 2	205 Â°C	401 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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