

Lubrizol Advanced Materials PEARLTHANE® 15N95UV Thermoplastic Polyurethane Elastomer

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

Material Notes:

PEARLTHANE® 15N95UV is a polyether copolymer-based TPU, supplied in form of translucent, colorless pellets, combining hardness with excellent mechanical properties and excellent hydrolysis resistance. It can be extruded and injection-molded. PEARLTHANE® 15N95UV can be used for high performance animal ear tags and a variety of technical parts for outdoor use. When extruded, it can be used for tubing and profiles. To improve the microbiological protection of PEARLTHANE® 15N95UV, it is necessary to add a biocide, preferably in form of TPU-based masterbatch. All information provided by Merquinsa

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-Advanced-Materials-PEARLTHANE-15N95UV-Thermoplastic-Polyurethane-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 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	95	95	ASTM D2240
Hardness, Shore D	45	45	ASTM D2240
Tensile Strength, Yield	35.00 MPa	5076 psi	ASTM D412
Elongation at Break	545 %	545 %	ASTM D412
100% Modulus	0.0100 GPa	1.45 ksi	ASTM D412
300% Modulus	0.01900 GPa	2.755 ksi	ASTM D412
Tear Strength	145 kN/m	830 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
	40 % @Temperature 70.0 °C, Time 86400 sec	40 % @Temperature 158 °F, Time 24.0 hour	ASTM D395

Thermal Properties	Metric	English	Comments
Melting Point	191 - 202 Â°C	375 - 395 Â°F	MQSA 111
Glass Transition Temp, Tg	-46.1 Â°C	-51.0 Â°F	DSC, 10Â°C/min; DIN 51.007

Processing Properties	Metric	English	Comments
Feed Temperature	196 Â°C	385 Â°F	
Nozzle Temperature	199 Â°C	390 Â°F	
Zone 1	199 Â°C	390 Â°F	Compression Zone
Zone 2	199 Â°C	390 Â°F	Metering Zone
Mold Temperature	35.0 Â°C	95.0 Â°F	
Moisture Content	<= 0.10 %	<= 0.10 %	MQSA 44
Injection Pressure	11.0 MPa	1590 psi	
Hold Pressure	6.00 MPa @Time 15.0 sec	870 psi @Time 0.00417 hour	
Cycle Time - Injection	2.5 sec	2.5 sec	
Cycle Time - Cooling	38 sec	38 sec	
Screw Speed	75 rpm	75 rpm	

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