

Lubrizol ESTANE® 58212 Ether Based Thermoplastic Polyurethane

Category : Polymer , Thermoplastic , Elastomer, TPE , Polyurethane, TP , Thermoplastic Polyurethane, Elastomer, Ether Grade

Material Notes:

Features: Excellent clarity and UV stable with good melt strength. Pre-drying: 2 hours at 104°C (220°F) in dehumidifying hopper dryer

Uses: Extrusion: Cable jacket, hose/tube, profile and film and sheet
Information provided by Lubrizol.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-ESTANE-58212-Ether-Based-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.16 g/cc	1.16 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	95	95	ASTM D2240
Hardness, Shore D	43 - 49	43 - 49	ASTM D2240
Elongation at Break	400 %	400 %	ASTM D412
100% Modulus	0.0135 GPa	1.96 ksi	ASTM D412/D638
300% Modulus	0.0316 GPa	4.58 ksi	ASTM D412/D638
Modulus of Rigidity	0.00840 GPa	1.22 ksi	ASTM D1053
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	0.0138 GPa	2.00 ksi	
	@Temperature 0.000 °C	@Temperature 32.0 °F	
	0.0413 GPa	5.99 ksi	
Flexural Modulus	@Temperature -20.0 °C	@Temperature -4.00 °F	ASTM D1053
	0.2138 GPa	31.01 ksi	
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Tear Strength	0.3656 GPa	53.03 ksi	ASTM D1053
	@Temperature -50.0 °C	@Temperature -58.0 °F	
Taber Abrasion, mg/1000 Cycles	0.07577 GPa	10.99 ksi	ASTM D790
	28.9 kN/m	165 pli	
Taber Abrasion, mg/1000 Cycles	118 kN/m	675 pli	Die C; ASTM D624
	5.0	5.0	
Taber Abrasion, mg/1000 Cycles	36 %	36 %	CS-17, 1000 g; ASTM D3389 B

Mechanical Properties	Metric	English	Comments
	@Temperature 23.0 °C, Time 79200 sec	@Temperature 73.4 °F, Time 22.0 hour	
	61 %	61 %	
	@Temperature 70.0 °C, Time 79200 sec	@Temperature 158 °F, Time 22.0 hour	ASTM D395
Tensile Set	20 %	20 %	200% elongation; ASTM D412/D638

Thermal Properties	Metric	English	Comments
Vicat Softening Point	115 °C	239 °F	ASTM D1525
Transformation Temperature	-25.0 °C	-13.0 °F	by DSC

Processing Properties	Metric	English	Comments
Zone 1	182 - 188 °C	360 - 370 °F	
Zone 2	188 - 199 °C	370 - 390 °F	
Zone 3	193 - 204 °C	379 - 399 °F	
Zone 4	199 - 210 °C	390 - 410 °F	
Adapter Temperature	204 - 216 °C	399 - 421 °F	
Die Temperature	193 - 204 °C	379 - 399 °F	Zone 2
	199 - 210 °C	390 - 410 °F	Zone 1
Screw Speed	15 - 70 rpm	15 - 70 rpm	

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