

Lubrizol ESTANE® 58149 Ester Based Thermoplastic Polyurethane

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

Material Notes:

Features: Low Compression Set Use: Hydraulic Seals and Gaskets Available in Americas, Europe, Middle East, Africa, India and

Asia Information provided by Lubrizol.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-ESTANE-58149-Ester-Based-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.19 g/cc	1.19 g/cc	ASTM D792
Maximum Moisture Content	0.020	0.020	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	92 - 98	92 - 98	ASTM D2240
	@Time 5.00 sec	@Time 0.00139 hour	
Tensile Strength	33.9 MPa	4920 psi	ASTM D412
Elongation at Break	370 %	370 %	ASTM D412/D638
100% Modulus	0.0135 GPa	1.96 ksi	ASTM D412
300% Modulus	0.0250 GPa	3.63 ksi	ASTM D412
Tear Strength	93.6 kN/m	534 pli	Trouser; ASTM D470
Graves Tear Strength	109 kN/m	622 pli	Die C; ASTM D624
Taber Abrasion, mg/1000 Cycles	38	38	H18, 1000g; ASTM D3389
Compression Set	23 %	23 %	ASTM D395 Method B
	@Temperature 70.0 °C, Time 79200 sec	@Temperature 158 °F, Time 22.0 hour	
	37 %	37 %	ASTM D395 Method B
	@Temperature 100 °C, Time 252000 sec	@Temperature 212 °F, Time 70.0 hour	

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	DSC
Glass Transition Temp, Tg	-32.0 °C	-25.6 °F	DSC
	0.0080 %	0.0080 %	

Shrinkage Thermal Properties	Metric @ Time 173000 sec	English @ Time 48.0 hour	8" bark Comments
	0.0080 %	0.0080 %	4" disk
	@Time 173000 sec	@Time 48.0 hour	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	193 °C	379 °F	Injection
	216 °C	421 °F	
Middle Barrel Temperature	204 °C	399 °F	Injection
Nozzle Temperature	216 °C	421 °F	Injection
Melt Temperature	216 °C	421 °F	Injection
Drying Temperature	104 °C	219 °F	
Dry Time	2.00 - 4.00 hour	2.00 - 4.00 hour	
Dew Point	-40.0 °C	-40.0 °F	
Injection Pressure	68.9 - 103 MPa	10000 - 15000 psi	Injection
Hold Pressure	34.5 - 68.9 MPa	5000 - 10000 psi	Injection
Back Pressure	0.345 MPa	50.0 psi	Injection
Screw Speed	20 - 50 rpm	20 - 50 rpm	Injection

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China