

Lubrizol ESTANE® ETE50DS3 Ester Based Thermoplastic Polyurethane

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

Material Notes:

Features: Excellent physical and low temperature properties with very good chemical resistance and wide processing window for extrusion. Uses: Flat die/cast film and tubing extrusion and Injection and blow molding. 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-ETE50DS3-Ester-Based-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.22 g/cc	1.22 g/cc	ASTM D792
Maximum Moisture Content	0.020	0.020	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	49	49	ASTM D2240
	@Time 5.00 sec	@Time 0.00139 hour	
Tensile Strength	65.5 MPa	9500 psi	ASTM D412
	65.5 MPa	9500 psi	Sheet Immersion in Diesel Fuel
	@Temperature 23.0 °C, Time 0.000 sec	@Temperature 73.4 °F, Time 0.000 hour	
	65.5 MPa	9500 psi	Sheet Immersion in Diesel Fuel
	@Temperature 23.0 °C, Time 2.42e+6 sec	@Temperature 73.4 °F, Time 672 hour	
	72.05 MPa	10450 psi	Sheet Immersion in Diesel Fuel
	@Temperature 23.0 °C, Time 1.30e+6 sec	@Temperature 73.4 °F, Time 360 hour	
Elongation at Break	440 %	440 %	ASTM D412
100% Modulus	0.0104 GPa	1.51 ksi	ASTM D412
300% Modulus	0.0310 GPa	4.50 ksi	ASTM D412
Flexural Stiffness	112.00 MPa	16244 psi	
Tear Strength	33.3 kN/m	190 pli	Trouser; ASTM D470
Graves Tear Strength	131 kN/m	750 pli	Die C; ASTM D624
Taber Abrasion, mg/1000 Cycles	50	50	H18, 1000g; ASTM D3389 B

Tensile Set Mechanical Properties	22 % Metric	22 % English	200% elongation; ASTM D412 Comments
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Thermal Properties	Metric	English	Comments
Melting Point	176 °C	349 °F	Kofler
	177 °C	351 °F	DSC
Glass Transition Temp, Tg	-36.0 °C	-32.8 °F	DSC

Processing Properties	Metric	English	Comments
Zone 1	182 °C	360 °F	Extrusion
Zone 2	188 °C	370 °F	Extrusion
Zone 3	193 °C	379 °F	Extrusion
Zone 4	199 °C	390 °F	Extrusion
Adapter Temperature	204 °C	399 °F	5, Extrusion
Die Temperature	204 °C	399 °F	Zone 1, Extrusion
	204 °C	399 °F	Zone 2, Extrusion
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	

Descriptive Properties	Value	Comments
Volume swell in Diesel Fuel	6.1%	24h, 23°C; ASTM D471

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