

Lubrizol ESTALOC® 60204 Polyester-Type, Reinforced Engineering Thermoplastic Polyurethane

Category : Polymer , Thermoplastic , Elastomer, TPE , Polyurethane, TP , Thermoplastic Polyurethane, Elastomer, Glass Filled

Material Notes:

Features: Fast Cycling, Dimensional Stability, Durability, Aesthetics, Low Temperature ImpactUses: Injection MoldingAvailability: Americas, Europe, Middle East, Africa, India and AsiaInformation provided by Lubrizol

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-ESTALOC-60204-Polyester-Type-Reinforced-Engineering-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.31 g/cc	1.31 g/cc	ISO 1183
Filler Content	10 %	10 %	Glass
	10 %	10 %	Mineral
Maximum Moisture Content	0.020	0.020	
Linear Mold Shrinkage	0.00060 cm/cm	0.00060 in/in	flex bar; ASTM D955
	0.0030 cm/cm	0.0030 in/in	average flow and against flow, disc; ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	71 - 77	71 - 77	ASTM D2240
	@Time 5.00 sec	@Time 0.00139 hour	
Tensile Strength	32.0 MPa	4640 psi	ASTM D638
Elongation at Break	39 %	39 %	ASTM D638
Tensile Modulus	1.90 GPa	276 ksi	ASTM D638
Flexural Strength	41.0 MPa	5950 psi	ASTM D790
Flexural Modulus	1.38 GPa	200 ksi	ASTM D790
Izod Impact, Notched	2.14 J/cm	4.00 ft-lb/in	ASTM D256
	0.374 J/cm	0.700 ft-lb/in	ASTM D256
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	163 °C	325 °F	ASTM D955

Deflection Temperature at 1.8 MPa (150 psi) Thermal Properties	122 °C Metric	252 °F English	ASTM D955 Comments
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Processing Properties	Metric	English	Comments
Rear Barrel Temperature	199 °C	390 °F	
Middle Barrel Temperature	210 °C	410 °F	
Front Barrel Temperature	221 °C	430 °F	
Nozzle Temperature	227 °C	441 °F	
Melt Temperature	227 °C	441 °F	
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	69.0 - 103 MPa	10000 - 14900 psi	
Hold Pressure	35.0 - 69.0 MPa	5080 - 10000 psi	
Back Pressure	0.345 MPa	50.0 psi	
Screw Speed	30 - 80 rpm	30 - 80 rpm	

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