

Lubrizol ESTALOC® 59104 Ester-Type, Reinforced Engineering Thermoplastic

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

Material Notes:

Features: Fast cycling, dimensional stability, durability, aesthetics, low temperature impact
 Uses: Injection Molding Available in Americas and Asia
 Information provided by Lubrizol

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-ESTALOC-59104-Ester-Type-Reinforced-Engineering-Thermoplastic.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.31 g/cc	1.31 g/cc	ASTM D792
Maximum Moisture Content	0.020	0.020	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	65 - 71	65 - 71	ASTM D2240
	@Time 5.00 sec	@Time 0.00139 hour	
Tensile Strength	40.0 MPa	5800 psi	ASTM D638
Elongation at Break	40 %	40 %	ASTM D638
Flexural Strength	47.0 MPa	6820 psi	ASTM D790
Flexural Modulus	1.21 GPa	175 ksi	ASTM D790
Izod Impact, Notched	6.94 J/cm	13.0 ft-lb/in	ASTM D256
	2.94 J/cm @Temperature -40.0 °C	5.50 ft-lb/in @Temperature -40.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	95.0 °C	203 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	61.1 °C	142 °F	ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	210 °C	410 °F	
Middle Barrel Temperature	215 °C	419 °F	
Front Barrel Temperature	221 °C	430 °F	
Nozzle Temperature	227 °C	441 °F	

Processing Properties	Metric	English	Comments
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	

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