

Lubrizol ESTALOC® 59200 Ester-Type, Reinforced Engineering Thermoplastic (European Grade)

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

Material Notes:

Description: Estaloc® RETP (Reinforced Engineering Thermoplastic) is a tough, dimensionally stable, abrasion-resistant thermoplastic that withstands demanding environments. Developed as an extension to the Noveon Estane® TPU technology, Estaloc® RETP products complement Estane's durability and aesthetics with increased stiffness capability and dimensional stability over a broad temperature performance range not available from other engineering thermoplastics. Major Benefits of Estaloc® RETPs: Superior Dimensional Stability approaching that of metals Class A surface aesthetics Paintability with no primer nor adhesion promoter Excellent abrasion and scuff/mar resistance Toughness over a broad temperature range Excellent adhesion to a variety of overmolding chemistries Information provided by Noveon, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-ESTALOC-59200-Ester-Type-Reinforced-Engineering-Thermoplastic-European-Grade.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.44 g/cc	1.44 g/cc	ISO 1183
Filler Content	30 %	30 %	
Linear Mold Shrinkage	0.0015 cm/cm	0.0015 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	68	68	ISO 868
Tensile Strength, Ultimate	74.0 MPa	10700 psi	ISO 527-2/1A/5
Elongation at Break	20 %	20 %	ISO 527-2/1A/5
Tensile Modulus	2.883 GPa	418.2 ksi	ISO 527-2/1A/1
Flexural Strength	67.0 MPa	9720 psi	ISO 178
Flexural Modulus	2.36 GPa	342 ksi	ISO 178
Izod Impact, Notched (ISO)	25.0 kJ/m ²	11.9 ft-lb/in ²	Low Temp; ISO 180/1eA
	70.0 kJ/m ²	33.3 ft-lb/in ²	ISO 180/1eA
Izod Impact, Unnotched (ISO)	NB	NB	ISO 180/1eU
	95.0 kJ/m ²	45.2 ft-lb/in ²	ISO 180/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact Unnotched	14.4 J/cm ²	68.5 ft-lb/in ²	ISO 179/1eU
	103 J/cm ²	490 ft-lb/in ²	

Mechanical Properties	Metric @ Temperature -30.0 °C	English @ Temperature -22.0 °F	ISO 179/1eJ Comments
Charpy Impact, Notched	5.80 J/cm ²	27.6 ft-lb/in ²	ISO 179/1eA
	2.00 J/cm ² @Temperature -30.0 °C	9.52 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eA
Taber Abrasion, mg/1000 Cycles	20	20	CS-17 wheel; ASTM D1044

Thermal Properties	Metric	English	Comments
CTE, linear	13.5 μm/m-°C @Temperature 20.0 °C	7.50 μin/in-°F @Temperature 68.0 °F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	154 °C	309 °F	method Bf; ISO 75-2
Deflection Temperature at 1.8 MPa (264 psi)	126 °C	259 °F	method Af; ISO 75-2
Vicat Softening Point	107 °C	225 °F	temperature B; ISO 36
	176 °C	349 °F	temperature A; ISO 306

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