

Estaloc® 59300 RETPU

Lubrizol Advanced Materials, Inc. - Thermoplastic Polyurethane Elastomer (Polyester)

Wednesday, November 6, 2019

General Information

Product Description

Type: Estaloc® 59300 RETPU is a Polyester-Type Reinforced Engineered Thermoplastic (RETPU).

Features: Fast Cycling, Dimensional Stability, Durability, Aesthetics, Low Temperature Impact

Uses: Injection Molding

| General | | | |
|------------------------|---|--|--------------------------------------|
| Material Status | Commercial: Active | | |
| Availability | Africa & Middle EastAsia Pacific | EuropeLatin America | North America |
| Filler / Reinforcement | • Filler | | |
| Features | DurableFast Molding Cycle | Good Dimensional Stability Good Surface Finish | Low Temperature Impact Resistance |
| RoHS Compliance | RoHS Compliant | | |
| Forms | Pellets | | |
| Processing Method | Injection Molding | | |

| Nominal Value | Unit | Test Method |
|---------------|---|--|
| 1.45 | | ASTM D792 |
| | | ASTM D955 |
| 1.0E-3 | in/in | |
| 4.0E-4 | in/in | |
| 1.0E-3 | in/in | ASTM D955 |
| Nominal Value | Unit | Test Method |
| 537000 | psi | ASTM D638 |
| 12000 | psi | ASTM D638 |
| 20 | % | ASTM D638 |
| 421000 | psi | ASTM D790 |
| 13100 | psi | ASTM D790 |
| Nominal Value | Unit | Test Method |
| | | ASTM D256 |
| 2.4 | ft·lb/in | |
| 8.1 | ft·lb/in | |
| Nominal Value | Unit | Test Method |
| 72 to 78 | | ASTM D2240 |
| | 1.45 1.0E-3 4.0E-4 1.0E-3 Nominal Value 537000 12000 20 421000 13100 Nominal Value 2.4 8.1 Nominal Value | 1.0E-3 in/in 4.0E-4 in/in 1.0E-3 in/in Nominal Value Unit 537000 psi 12000 psi 20 % 421000 psi 13100 psi Nominal Value Unit 2.4 ft·lb/in 8.1 ft·lb/in Nominal Value Unit |

| Processing Information | | | |
|------------------------|--------------------|--|--|
| Injection | Nominal Value Unit | | |
| Drying Temperature | 219 °F | | |
| Drying Time | 2.0 to 4.0 hr | | |
| Suggested Max Moisture | 0.020 % | | |
| Rear Temperature | 410 °F | | |

our control, and we cannot and will not take responsibility for the information or content.



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| Injection | Nominal Value Unit |
|------------------------|--------------------|
| Middle Temperature | 430 °F |
| Front Temperature | 435 °F |
| Nozzle Temperature | 450 °F |
| Processing (Melt) Temp | 450 °F |
| Injection Pressure | 10000 to 14900 psi |
| Injection Rate | Slow-Moderate |
| Holding Pressure | 5080 to 10000 psi |
| Back Pressure | 50.0 psi |
| Screw Speed | 30 to 80 rpm |
| Injection Notes | |

Air Dew Point: -40°C

Notes

¹ Typical properties: these are not to be construed as specifications.

² Disc

³ Flex Bar

