

Estaloc® 59300 RETPU

Thermoplastic Polyurethane Elastomer (Polyester)

Lubrizol Advanced Materials, Inc.

Message:

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 Information			
UL YellowCard	E106426-218377		
Filler / Reinforcement	Filler		
Features	Good dimensional stability		
	Fast molding cycle		
	Low temperature impact resistance		
	Durability		
	Excellent appearance		
RoHS Compliance	RoHS compliance		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.45	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow ¹	0.040	%	ASTM D955
Flow ²	0.10	%	ASTM D955
Transverse flow ³	0.10	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 5 sec)	72 - 78		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (0.762 mm)	3700	MPa	ASTM D638
Tensile Strength (0.762 mm)	83.0	MPa	ASTM D638
Tensile Elongation (Break, 0.762 mm)	20	%	ASTM D638
Flexural Modulus (0.762 mm)	2900	MPa	ASTM D790
Flexural Strength (0.762 mm)	90.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°C, 0.762 mm	130	J/m	ASTM D256
23°C, 0.762 mm	430	J/m	ASTM D256
Injection	Nominal Value	Unit	
Drying Temperature	104	°C	
Drying Time	2.0 - 4.0	hr	

Suggested Max Moisture	0.020	%
Rear Temperature	210	°C
Middle Temperature	221	°C
Front Temperature	224	°C
Nozzle Temperature	232	°C
Processing (Melt) Temp	232	°C
Injection Pressure	69.0 - 103	MPa
Injection Rate	Slow-Moderate	
Holding Pressure	35.0 - 69.0	MPa
Back Pressure	0.345	MPa
Screw Speed	30 - 80	rpm

Injection instructions

Air Dew Point: -40°C

NOTE

1. Flex Bar
2. Disc
3. Disc

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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