

## Lubrizol Estaloc® 61225 Polyester-Type Thermoplastic Alloy

Category : Polymer , Thermoplastic , Polyurethane, TP , Thermoplastic Polyurethane (TPUR), Polyester Grade

### Material Notes:

Type: Estaloc® 61225 Alloy RETPU is a polyester-type thermoplastic alloy. Features: Fast cycling, dimensional stability, durability, aesthetics, low temperature impact. Uses: Injection molding. Availability: Americas, Europe, Middle East, Africa, India and Asia. Information Provided by The Lubrizol Corporation

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lubrizol-Estaloc-61225-Polyester-Type-Thermoplastic-Alloy.php](http://www.lookpolymers.com/polymer_Lubrizol-Estaloc-61225-Polyester-Type-Thermoplastic-Alloy.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.11 g/cc	1.11 g/cc	ASTM D792
Maximum Moisture Content	0.020	0.020	
Linear Mold Shrinkage	0.0040 cm/cm	0.0040 in/in	flex bar; ASTM D955
	0.0050 cm/cm	0.0050 in/in	disc; ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	61 - 67 @Time 5.00 sec	61 - 67 @Time 0.00139 hour	ASTM D2240
Tensile Strength, Ultimate	32.0 MPa	4640 psi	ASTM D638
Elongation at Break	180 %	180 %	ASTM D638
Tensile Modulus	1.03 GPa	149 ksi	ASTM D638
Flexural Strength	28.0 MPa	4060 psi	ASTM D790
Flexural Modulus	0.830 GPa	120 ksi	ASTM D790
Izod Impact, Notched	0.640 J/cm @Temperature -40.0 °C	1.20 ft-lb/in @Temperature -40.0 °F	ASTM D256
	9.60 J/cm @Temperature 23.0 °C	18.0 ft-lb/in @Temperature 73.4 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	69.0 °C	156 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	57.0 °C	135 °F	ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	221 °C	430 °F	
Middle Barrel Temperature	226 °C	439 °F	
Front Barrel Temperature	226 °C	439 °F	
Nozzle Temperature	232 °C	450 °F	
Melt Temperature	232 °C	450 °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	
	69.0 - 103 MPa	10000 - 14900 psi	
Hold Pressure	35.0 - 69.0 MPa	5080 - 10000 psi	
	35.0 - 69.0 MPa	5080 - 10000 psi	
Back Pressure	0.345 MPa	50.0 psi	
	0.345 MPa	50.0 psi	
Screw Speed	30 - 80 rpm	30 - 80 rpm	
	30 - 80 rpm	30 - 80 rpm	

## Contact Songhan Plastic Technology Co.,Ltd.

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