

Gromax 1163LL TPE

Category : Polymer , Thermoplastic , Elastomer, TPE

Material Notes:

163LL is medium modulus grade with nominal Durometer hardness of 63D. It contains color stable antioxidants. It can be processed by thermoplastic processing techniques like injection molding and extrusion molding grade. Characteristics:Excellent low modulus for injection molding and extrusion molding grade.Excellent flexibility and fatigue resistance.Excellent creep resistance.Excellent low shrinkage and higher melting temperatureInformation provided by Gromax Enterprises Corp.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Gromax-1163LL-TPE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.23 g/cc	1.23 g/cc	ISO 1183
Moisture Absorption	0.300 % @Time 86400 sec	0.300 % @Time 24.0 hour	ISO 62
Linear Mold Shrinkage	0.013 cm/cm	0.013 in/in	ISO 294-4
Melt Flow	30 g/10 min @Load 2.16 kg, Temperature 230 Â°C	30 g/10 min @Load 4.76 lb, Temperature 446 Â°F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	63	63	ISO 868
Tensile Strength	32.4 MPa	4690 psi	ISO 527
Elongation at Break	487 %	487 %	ISO 527
Tensile Modulus	0.511 GPa	74.1 ksi	ISO 527
Flexural Modulus	0.179 GPa	26.0 ksi	ISO 178
Charpy Impact, Notched	NB	NB	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	212 Â°C	414 Â°F	ISO 3146C

Electrical Properties	Metric	English	Comments
Volume Resistivity	6.31e+13 ohm-cm	6.31e+13 ohm-cm	IEC 60093
Surface Resistance	2.78e+15 ohm	2.78e+15 ohm	IEC 60093

Electrical Properties	17.18 kV/mm Metric	436.4 kV/in English	Comments
	@Thickness 2.00 mm	@Thickness 0.0787 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	210 - 230 Â°C	410 - 446 Â°F	
Middle Barrel Temperature	230 - 260 Â°C	446 - 500 Â°F	
Front Barrel Temperature	230 - 260 Â°C	446 - 500 Â°F	
Nozzle Temperature	230 - 260 Â°C	446 - 500 Â°F	
Mold Temperature	20.0 - 50.0 Â°C	68.0 - 122 Â°F	
Injection Pressure	30.0 - 100 MPa @Time 2.00 - 10.0 sec	4350 - 14500 psi @Time 0.000556 - 0.00278 hour	
Hold Pressure	5.00 - 40.0 MPa @Time 10.0 - 30.0 sec	725 - 5800 psi @Time 0.00278 - 0.00833 hour	
Screw Speed	40 - 80 rpm	40 - 80 rpm	

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