

Gromax 1155LL TPE

Category : Polymer , Thermoplastic , Elastomer , TPE

Material Notes:

1155LL is medium modulus grade with nominal Durometer hardness of 55D. 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 temperature. Information provided by Gromax Enterprises Corp.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Gromax-1155LL-TPE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.193 g/cc	1.193 g/cc	ISO 1183
Moisture Absorption	0.400 % @Time 86400 sec	0.400 % @Time 24.0 hour	ISO 62
Linear Mold Shrinkage	0.065 cm/cm	0.065 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	55	55	ISO 868
Tensile Strength	23.5 MPa	3410 psi	ISO 527
Elongation at Break	466 %	466 %	ISO 527
Tensile Modulus	0.421 GPa	61.1 ksi	ISO 527
Flexural Modulus	0.122 GPa	17.6 ksi	ISO 178
Charpy Impact, Notched	NB	NB	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	209 Â°C	408 Â°F	ISO 3146C

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.13e+13 ohm-cm	2.13e+13 ohm-cm	IEC 60093
Surface Resistance	3.57e+13 ohm	3.57e+13 ohm	IEC 60093

Electrical Properties	16.8 kV/mm Metric	427 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	220 - 250 Â°C	428 - 482 Â°F	
Front Barrel Temperature	220 - 250 Â°C	428 - 482 Â°F	
Nozzle Temperature	220 - 250 Â°C	428 - 482 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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