

BASF Ultrason® E 2010 G4 MR SW 15102 20% Glass Filled PESU

Category : Polymer , Thermoplastic , Polyethersulfone (PES) , Polyethersulfone (PES), 20%Glass Fiber Filled

Material Notes:

Information provided by BASF

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultrason-E-2010-G4-MR-SW-15102-20-Glass-Filled-PESU.php

Physical Properties	Metric	English	Comments
Bulk Density	0.700 - 0.800 g/cc	0.0253 - 0.0289 lb/in ³	
Density	1.50 g/cc	0.0542 lb/in ³	ISO 1183
Water Absorption	1.6 %	1.6 %	ISO 62
Moisture Absorption at Equilibrium	0.60 %	0.60 %	23°C; 50% RH; ISO 62
Viscosity Measurement	56	56	[cm ³ /g]; ISO 307
Linear Mold Shrinkage, Flow	0.0036 cm/cm	0.0036 in/in	ISO 2577, 294-4
Linear Mold Shrinkage, Transverse	0.0061 cm/cm	0.0061 in/in	ISO 2577, 294-4
Melt Flow	43.5 g/10 min @Load 10.0 kg, Temperature 360 °C	43.5 g/10 min @Load 22.0 lb, Temperature 680 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	205 MPa @Load 98.0 kg, Time 30.0 sec	29700 psi @Load 216 lb, Time 0.00833 hour	ISO 2039-1
Tensile Strength at Break	125 MPa	18100 psi	ISO 527-1/-2
Elongation at Break	2.5 %	2.5 %	ISO 527-1/-2
Tensile Modulus	7.30 GPa	1060 ksi	ISO 527-1/-2
Izod Impact, Notched (ISO)	6.50 kJ/m ²	3.09 ft-lb/in ²	ISO 180/A
Charpy Impact Unnotched	4.70 J/cm ²	22.4 ft-lb/in ²	ISO 179/1eU
Charpy Impact, Notched	0.650 J/cm ²	3.09 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	20.0 µm/m-°C @Temperature 23.0 -	11.1 µin/in-°F @Temperature 73.4 -	ISO 75-1/-2

Thermal Properties	80.0 °C Metric	176 °F English	Comments
	23.0 µm/m-°C	12.8 µin/in-°F	DIN 53752
	@Temperature 180 °C	@Temperature 356 °F	
Deflection Temperature at 1.8 MPa (264 psi)	220 °C	428 °F	ISO 75-1/-2
Glass Transition Temp, Tg	225 °C	437 °F	ISO 11357-1/-2
Decomposition Temperature	>= 400 °C	>= 752 °F	
Flammability, UL94	V-0	V-0	
	@Thickness 1.60 mm	@Thickness 0.0630 in	

Processing Properties	Metric	English	Comments
Processing Temperature	80.0 °C	176 °F	Hopper throat
Zone 1	350 °C	662 °F	Feed zone
Zone 2	360 °C	680 °F	Compression
Zone 3	370 °C	698 °F	Metering-zone
Zone 4	370 °C	698 °F	Nozzle
Melt Temperature	350 - 390 °C	662 - 734 °F	Injection molding/extrusion
	370 °C	698 °F	Optimal
Mold Temperature	150 - 190 °C	302 - 374 °F	Injection molding
	170 °C	338 °F	Optimal
Drying Temperature	140 °C	284 °F	
Dry Time	4 hour	4 hour	

Descriptive Properties	Value	Comments
Commercial Status	Europe	
Ignition Temperature	580-600°C	DIN 54836
Primary Processing Technique	Injection molding	

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