

Ultrason® E Dimension E1010 G9

Polyethersulfone

BASF Corporation

Message:

Medium viscosity injection moulding grade with high rigidity and strength, 45 % glass fiber reinforced.

General Information			
Filler / Reinforcement	Glass Fiber,45% Filler by Weight		
Features	High Rigidity		
	High Strength		
	Medium Viscosity		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Extrusion		
	Injection Molding		
Resin ID (ISO 1043)	PESU-GF		
Physical	Nominal Value	Unit	Test Method
Density	1.73	g/cm ³	ISO 1183
Apparent Density	0.70 to 0.80	g/cm ³	
Melt Volume-Flow Rate (MVR) (360°C/10.0 kg)	35.0	cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	0.70	%	
Flow	0.40	%	
Water Absorption (Saturation, 23°C)	0.65	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	15500	MPa	ISO 527-2
Tensile Stress (Break)	145	MPa	ISO 527-2
Tensile Strain (Break)	1.3	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	8.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	40	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	216	°C	ISO 75-2/A
CLTE - Flow			
23 to 80°C	1.3E-5	cm/cm/°C	ISO 11359-2
180°C	1.5E-5	cm/cm/°C	DIN 53752

Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index (Solution A)	125	V	IEC 60112

Injection	Nominal Value	Unit
Drying Temperature	140	°C
Drying Time	4.0	hr
Suggested Max Moisture	0.020	%
Processing (Melt) Temp	340 to 390	°C
Mold Temperature	140 to 180	°C

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