

Ultrason® E 2010 C6

Polyethersulfone

BASF Corporation

Message:

Medium viscosity injection moulding grade with high rigidity and strength, 30 % carbon fiber reinforced.

General Information			
Filler / Reinforcement	Carbon Fiber,30% Filler by Weight		
Features	High Rigidity		
	High Strength		
	Medium Viscosity		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	PESU-CF		
Physical	Nominal Value	Unit	Test Method
Density	1.47	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)	15.0	cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	0.35	%	
Flow	0.15	%	
Water Absorption			ISO 62
Saturation, 23°C	1.7	%	
Equilibrium, 23°C, 50% RH	0.60	%	
Viscosity Number ¹	56.0	cm ³ /g	ISO 307
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 961/30)	227	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	22000	MPa	ISO 527-2
Tensile Stress (Break)	185	MPa	ISO 527-2
Tensile Strain (Break)	1.5	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	6.5	kJ/m ²	
23°C	7.5	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU

-30°C	40	kJ/m ²	
23°C	40	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	225	°C	ISO 75-2/A
Glass Transition Temperature ²	225	°C	ISO 11357-2
CLTE - Flow			
23 to 80°C	4.0E-6	cm/cm/°C	ISO 11359-2
180°C	4.0E-6	cm/cm/°C	DIN 53752
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+3	ohms	IEC 60093
Volume Resistivity ³	1.9	ohms·cm	ISO 3915
Injection	Nominal Value	Unit	
Drying Temperature	140	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.020	%	
Hopper Temperature	80.0	°C	
Rear Temperature	350	°C	
Middle Temperature	360	°C	
Front Temperature	370	°C	
Nozzle Temperature	370	°C	
Processing (Melt) Temp	350 to 390	°C	
Mold Temperature	150 to 190	°C	
Screw Speed	< 300	mm/sec	
NOTE			
1.	in 0,01 g/ml Phenol/1,2, ortho-Dichlorbenzol, 1:1		
2.	10°C/min		
3.	4 point method		

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