

Ultrason® E 2010 G6 UN

Polyether Sulfone

BASF Corporation

Product Description			
Medium viscosity injection moulding grade with high rigidity and strength, 30 % glass fiber reinforced.			
General			
Material Status	• Commercial: Active		
Availability	• Europe		
Filler / Reinforcement	• Glass Fiber Reinforcement, 30% Filler by Weight		
Appearance	• Natural Color		
Processing Method	• Extrusion • Injection Molding		
Resin ID (ISO 1043)	• PESU-GF30		
Physical	Nominal Value	Unit	Test Method
Density	1.60	g/cm ³	ISO 1183
Apparent Density	0.70 to 0.80	g/cm ³	ISO 60
Melt Volume-Flow Rate (MVR) (360°C/10.0 kg)	25.0	cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	0.58	%	
Flow	0.28	%	
Water Absorption			ISO 62
Saturation, 23°C	1.6	%	
Equilibrium, 23°C, 50% RH	0.60	%	
Viscosity Number	56.0	cm ³ /g	ISO 307
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	10000	MPa	ISO 527-2
Tensile Stress (Break)	140	MPa	ISO 527-2
Tensile Strain (Break)	1.9	%	ISO 527-2
Tensile Creep Modulus (1000 hr)	8300	MPa	ISO 899-1
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	8.0	kJ/m ²	
23°C	8.0	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	45	kJ/m ²	
23°C	42	kJ/m ²	
Notched Izod Impact Strength			ISO 180/1A
-30°C	8.00	kJ/m ²	
23°C	8.00	kJ/m ²	
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 961/30)	224	MPa	ISO 2039-1
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			ISO 75-2/A
1.8 MPa, Unannealed	220	°C	
Glass Transition Temperature	225	°C	ISO 11357-2
CLTE - Flow			
23 to 80°C	0.000015	cm/cm/°C	ISO 11359-2
180°C	0.000017	cm/cm/°C	DIN 53752
Maximum Service Temperature			
Short Cycle Operation	220	°C	
Temperature Index ²	190	°C	IEC 60216

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

如需要更多物性资料请查阅 www.kedisujiao.com

备注：以上原料物性数据由厂家发布,我公司仅提供参考！数据如有变动，请联系原料生产厂家获知。我公司不承担任何法律责任！

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Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+14	ohms	IEC 60093
Volume Resistivity	> 1.0E+15	ohm·cm	IEC 60093
Relative Permittivity			IEC 60250
100 Hz	4.30		
1 MHz	4.30		
Dissipation Factor			IEC 60250
100 Hz	0.0020		
1 MHz	0.010		
Comparative Tracking Index			IEC 60112
Solution A	125	V	
Solution B	125	V	
Electric Strength ³	37	kV/mm	IEC 60243-1
Flammability	Nominal Value	Unit	Test Method
Flame Rating - UL			UL 94
1.60 mm	V-0		
3.10 mm	V-0		
Injection	Nominal Value	Unit	
Drying Temperature	130 to 150	°C	
Drying Time	4.0	hr	
Processing (Melt) Temp	350 to 390	°C	
Mold Temperature	150 to 190	°C	

Notes

¹ Typical properties: these are not to be construed as specifications.

² 50% Loss of Tensile Strength after 20000 hr

³ K20/K20

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