

Ultrason® E 3010 NAT

Polyether Sulfone

BASF Corporation

Product Description			
Unreinforced, higher viscosity injection moulding and extrusion grade, tougher and with improved chemical resistance.			
General			
Material Status	• Commercial: Active		
Availability	• Europe		
Features	• Good Chemical Resistance	• High Viscosity	
Processing Method	• Blow Molding	• Extrusion	• Injection Molding
Resin ID (ISO 1043)	• PESU		
Physical	Nominal Value	Unit	Test Method
Density	1.37	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)	35.0	cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	0.90	%	
Flow	0.85	%	
Water Absorption			ISO 62
Saturation, 23°C	2.2	%	
Equilibrium, 23°C, 50% RH	0.80	%	
Viscosity Number	66.0	cm ³ /g	ISO 307
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2700	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	90.0	MPa	ISO 527-2/50
Tensile Strain (Yield, 23°C)	6.7	%	ISO 527-2/50
Tensile Creep Modulus (1000 hr)	2700	MPa	ISO 899-1
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	7.5	kJ/m ²	
23°C	7.5	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	No Break		
23°C	No Break		
Notched Izod Impact Strength			ISO 180/A
-30°C	7.00	kJ/m ²	
23°C	7.50	kJ/m ²	
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	154	MPa	ISO 2039-1
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			ISO 75-2/A
1.8 MPa, Unannealed	207	°C	
Glass Transition Temperature	228	°C	ISO 11357-2
CLTE - Flow			
23 to 50°C	0.000052	cm/cm/°C	ISO 11359-2
180°C	0.000059	cm/cm/°C	DIN 53752
Maximum Service Temperature			
Short Cycle Operation	220	°C	
Temperature Index ²	180	°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	3.90		
1 MHz	3.80		
Dissipation Factor			IEC 60250
100 Hz	0.0017		
1 MHz	0.014		
Comparative Tracking Index			IEC 60112
Solution A	125	V	
Solution B	125	V	
Electric Strength ³	34	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		
Optical	Nominal Value	Unit	Test Method
Refractive Index	1.630		ISO 489
Transmittance (2000 μm)	88.0	%	DIN 5036-3
Injection	Nominal Value	Unit	
Drying Temperature	130 to 150	°C	
Drying Time	4.0	hr	
Processing (Melt) Temp	350 to 390	°C	
Mold Temperature	140 to 180	°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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