

Ultrason® S 3010 NAT

Polysulfone

BASF Corporation

Product Description				
Unreinforced, higher viscosity injection moulding and extrusion grade, tougher, with improved chemical resistance.				
General				
Material Status	• Commercial: Active			
Availability	• Europe			
Additive	• Ignition Resistant			
Features	• Good Chemical Resistance	• Good Toughness	• High Viscosity	
RoHS Compliance	• RoHS Compliant			
Appearance	• Natural Color			
Forms	• Pellets			
Processing Method	• Blow Molding	• Extrusion	• Injection Molding	
Physical		Nominal Value	Unit	Test Method
Density		1.23	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)		40.0	cm ³ /10min	ISO 1133
Molding Shrinkage				ISO 294-4
Across Flow		0.74	%	
Flow		0.70	%	
Water Absorption				ISO 62
Saturation, 23°C		0.80	%	
Equilibrium, 23°C, 50% RH		0.30	%	
Viscosity Number		72.0	cm ³ /g	ISO 307
Molecular Weight (GPC in DMF, PS Standard)		42000	g/mol	
Mw/Mn (GPC in DMF)		3.50		
Mechanical		Nominal Value	Unit	Test Method
Tensile Modulus		2600	MPa	ISO 527-2
Tensile Stress (Yield)		75.0	MPa	ISO 527-2/50
Tensile Strain (Yield)		5.7	%	ISO 527-2/50
Tensile Creep Modulus (1000 hr)		2500	MPa	ISO 899-1
Impact		Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)		5.5	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C		No Break		
23°C		No Break		
Notched Izod Impact Strength				ISO 180/A
-30°C		6.00	kJ/m ²	
23°C		5.50	kJ/m ²	
Hardness		Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)		135	MPa	ISO 2039-1
Thermal		Nominal Value	Unit	Test Method
Heat Deflection Temperature				ISO 75-2/A
1.8 MPa, Unannealed		175	°C	
Glass Transition Temperature		187	°C	ISO 11357-2
CLTE - Flow				
23 to 80°C		0.000053	cm/cm/°C	ISO 11359-2
140°C		0.000060	cm/cm/°C	DIN 53752
Maximum Service Temperature				
Short Cycle Operation		180	°C	
Temperature Index ²		160	°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！

Ultrason® S 3010 NAT
Polysulfone
BASF Corporation

Tuesday, December 15, 2009

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	3.10		
1 MHz	3.10		
Dissipation Factor			IEC 60250
100 Hz	0.00080		
1 MHz	0.0064		
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	HB		
3.00 mm	V-2		
Optical	Nominal Value	Unit	Test Method
Refractive Index ⁴	1.610		ASTM D542
Transmittance (2000 µm)	89.0	%	DIN 5036-3
Injection	Nominal Value	Unit	
Drying Temperature	130 to 150	°C	
Drying Time	4.0	hr	
Processing (Melt) Temp	330 to 390	°C	
Mold Temperature	120 to 160	°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

⁴ 1 mm

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！