

Ultrason® P 3010 NAT

Polyphenylsulfone

BASF Corporation

Message:

Unreinforced, medium viscosity injection moulding grade, flameretardant and with improved chemical resistance.

General Information			
UL YellowCard	E41871-101031805		
Features	Flame Retardant		
	Good Chemical Resistance		
	Medium Viscosity		
Agency Ratings	EC 1907/2006 (REACH)		
	NSF 61		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	PPSU		
Physical	Nominal Value	Unit	Test Method
Density	1.29	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	1.0	%	
Flow	0.90	%	
Water Absorption			ISO 62
Saturation, 23°C	1.2	%	
Equilibrium, 23°C, 50% RH	0.60	%	
Viscosity Number ¹	71.0	cm ³ /g	ISO 307
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	124	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2270	MPa	ISO 527-2
Tensile Stress (Yield)	74.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	7.8	%	ISO 527-2/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	25	kJ/m ²	

23°C	75	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	25	kJ/m ²	
23°C	55	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	198	°C	ISO 75-2/A
Glass Transition Temperature ²	220	°C	ISO 11357-2
CLTE - Flow			
23 to 80°C	5.5E-5	cm/cm/°C	ISO 11359-2
180°C	6.3E-5	cm/cm/°C	DIN 53752
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+15	ohms	IEC 60093
Volume Resistivity	> 1.0E+15	ohms · cm	IEC 60093
Electric Strength	44	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
100 Hz	3.80		
1 MHz	3.70		
Dissipation Factor			IEC 60250
100 Hz	1.7E-3		
1 MHz	8.9E-3		
Comparative Tracking Index (Solution A)	150	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating		UL 94	
1.60 mm	V-0		
3.00 mm	V-0		
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	140 to 180	°C	
Screw Speed	< 300	mm/sec	
NOTE			

1.	in 0,01 g/ml Phenol/1,2, ortho-Dichlorbenzol, 1:1
2.	10°C/min

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