

Ultrason® P 3010

Polyphenylsulfone

BASF Corporation

Message:

Ultrason P 3010 is an unfilled, flame retardant, higher viscosity injection molding PPSU grade, with improved chemical resistance.

General Information			
Features	Flame Retardant		
	Good Chemical Resistance		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.29	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (360°C/10.0 kg)	35.0	cm³/10min	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	%	
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness	124	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2270	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	74.0	MPa	ISO 527-2
Tensile Strain (Yield, 23°C)	7.8	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	25	kJ/m²	
23°C	75	kJ/m²	
Charpy Unnotched Impact Strength			ISO 179
-30°C	No Break		
23°C	No Break		
Notched Izod Impact Strength			ISO 180
-30°C	25	kJ/m²	
23°C	55	kJ/m²	

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	198	°C	ISO 75-2/A
CLTE - Flow	5.5E-5	cm/cm/°C	
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
Dielectric Constant			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	150	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.60 mm	V-0		
3.00 mm	V-0		

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