Ultrason® P 3010

BASF Corporation - Polyphenylsulfone

Tuesday, November 5, 2019

General Information

Product Description

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

General		
Material Status	• Commercial: Active	
Availability	• North America	
Features	• Chemical Resistant	• Flame Retardant
Agency Ratings	• EC 1907/2006 (REACH)	
RoHS Compliance	• RoHS Compliant	
Forms	• Pellets	
Processing Method	• Injection Molding	

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	1.29	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (360°C/10.0 kg)	35	cm³/10min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	1.0	%	
Flow	0.90	%	
Water Absorption (Saturation, 73°F)	1.2	%	ISO 62
Water Absorption (Equilibrium, 73°F, 50% RH)	0.60	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (73°F)	329000	psi	ISO 527-2
Tensile Stress (Yield, 73°F)	10700	psi	ISO 527-2
Tensile Strain (Yield, 73°F)	7.8	%	ISO 527-2
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179
-22°F	12	ft·lb/in²	
73°F	36	ft·lb/in²	
Charpy Unnotched Impact Strength			ISO 179
-22°F	No Break		
73°F	No Break		
Notched Izod Impact Strength			ISO 180
-22°F	12	ft·lb/in²	
73°F	26	ft·lb/in²	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Ball Indentation Hardness	18000	psi	ISO 2039-1
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (264 psi, Unannealed)	388	°F	ISO 75-2/A
CLTE - Flow	3.1E-5	in/in/°F	

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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	1100	V/mil	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
0.06 in	V-0		
0.12 in	V-0		

Notes

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