Polyphenylsulfone BASF Corporation

Technical Data

Product Description

Ultrason P 3010 is an unreinforced General		
Material Status	Commercial: Active	
Literature ¹	 Processing - Injection Molding Guide (English) Technical Datasheet (English) 	
Search for UL Yellow Card	BASF Corporation Ultrason® P	
Availability	North America	
Features	Chemical Resistant Flame Retardant High Viscosity	
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/cm ³	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		ISO 62
Saturation, 23°C	1.2 %	
Equilibrium, 23°C, 50% RH	0.60 %	
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/m ²	
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/m ²	
23°C	55 kJ/m²	
Hardness	Nominal Value Unit	Test Method
Ball Indentation Hardness	124 MPa	ISO 2039-1
Thermal	Nominal Value Unit	Test Method
Heat Deflection Temperature		ISO 75-2/A
1.8 MPa, Unannealed	198 °C	
CLTE - Flow	5.5E-5 cm/cm/°C	

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Ultrason® P 3010 Polyphenylsulfone BASF Corporation

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
1.6 mm	V-0	
3.0 mm	V-0	

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.

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Where to Buy

Supplier

BASF Corporation Wyandotte, MI USA Telephone: 800-545-8359 Web: https://www.basf.com/us/en.html

Distributor

Amco Polymers Telephone: 800-262-6685 Web: http://www.amcopolymers.com/ Availability: North America

Entec Polymers Telephone: 800-375-5440 Web: http://www.entecpolymers.com/ Availability: North America

M. Holland Canada Company Telephone: 905-665-1168 Web: http://www.mholland.com/ Availability: Canada

M. Holland Company Telephone: 855-497-1403 Web: http://www.mholland.com/ Availability: Mexico, United States

Nexeo Plastics Telephone: 833-446-3936 Web: https://www.nexeoplastics.com/ Availability: North America

PolyOne Distribution

PolyOne Distribution is a global distribution company. Contact PolyOne Distribution for availability of individual products by country. Telephone: 440-930-3004 Web: http://polyonedistribution.com/ Availability: Global

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