

Ultrason® S 3010

Polysulfone
BASF Corporation

Message:

Ultrason S 3010 is medium viscosity injection molding grade with improved toughness and chemical resistance (stress crack resistance).
Applications
Typical applications include laboratory accessories and household parts.

General Information			
UL YellowCard	E41871-233828		
Features	Good Chemical Resistance		
	Good Crack Resistance		
	Good Toughness		
	Medium Viscosity		
Uses	Household Goods		
	Labware		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Injection Molding		
Multi-Point Data	Shear Modulus vs. Temperature (ISO 11403-1)		
	Specific Volume vs Temperature (ISO 11403-2)		
	Viscosity vs. Shear Rate (ISO 11403-2)		
Physical	Nominal Value	Unit	Test Method
Density	1.23	g/cm ³	ISO 1183
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	%	
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness	135	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2550	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	75.0	MPa	ISO 527-2

Tensile Strain (Yield, 23°C)	6.0	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	6.0	kJ/m ²	
23°C	5.5	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179
-30°C	No Break		
23°C	No Break		
Notched Izod Impact Strength			ISO 180
-30°C	6.0	kJ/m ²	
23°C	5.5	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	177	°C	ISO 75-2/A
CLTE - Flow	5.3E-5	cm/cm/°C	
RTI Elec			UL 746
1.60 mm	155	°C	
3.00 mm	155	°C	
RTI Imp			UL 746
1.60 mm	130	°C	
3.00 mm	130	°C	
RTI Str			UL 746
1.60 mm	155	°C	
3.00 mm	155	°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+15	ohms	IEC 60093
Volume Resistivity	> 1.0E+13	ohms·cm	IEC 60093
Electric Strength	37	kV/mm	IEC 60243-1
Dielectric Constant			IEC 60250
100 Hz	3.10		
1 MHz	3.10		
Dissipation Factor			IEC 60250
100 Hz	8.0E-4		
1 MHz	6.4E-3		
Comparative Tracking Index	125	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.60 mm	HB		
3.00 mm	HB		
Injection	Nominal Value	Unit	
Drying Temperature	130 to 150	°C	
Drying Time	4.0	hr	

Suggested Max Moisture	0.020	%
Processing (Melt) Temp	340 to 390	°C
Mold Temperature	140 to 180	°C
Injection Pressure	3.50 to 12.5	MPa
Injection Rate	Fast	

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