

Ultrason® S 3010 MR UN

Polysulfone

BASF Corporation

Message:

Unreinforced, higher viscosity injection moulding and extrusion grade, tougher, with improved chemical resistance and demolding optimized.

General Information			
Features	Good Chemical Resistance		
	Good Toughness		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Extrusion		
	Injection Molding		
Resin ID (ISO 1043)	PSU		
Physical	Nominal Value	Unit	Test Method
Density	1.23	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)	45.0	cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	0.73	%	
Flow	0.70	%	
Water Absorption			ISO 62
Saturation, 23°C	0.80	%	
Equilibrium, 23°C, 50% RH	0.30	%	
Viscosity Number	72.0	cm ³ /g	ISO 307
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	135	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2600	MPa	ISO 527-2
Tensile Stress (Yield)	75.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	5.8	%	ISO 527-2/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	6.0	kJ/m ²	
23°C	5.5	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	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
Glass Transition Temperature ¹	187	°C	ISO 11357-2
CLTE - Flow			
23 to 80°C	5.3E-5	cm/cm/°C	ISO 11359-2
140°C	6.0E-5	cm/cm/°C	DIN 53752
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.60 mm	HB		
3.00 mm	V-2		
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	330	°C	
Middle Temperature	340	°C	
Front Temperature	350	°C	
Nozzle Temperature	350	°C	
Processing (Melt) Temp	330 to 390	°C	
Mold Temperature	120 to 160	°C	
Screw Speed	< 300	mm/sec	
NOTE			
1.	10°C/min		

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