

Ultrason® P 3010 MR SW 10101

Polyphenylsulfone

BASF Corporation

Message:

Unreinforced, medium viscosity injection moulding grade, flameretardant and with improved chemical resistance. This grade is black colored and demolding optimized.

General Information			
Features	Flame Retardant		
	Medium Viscosity		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS Compliant		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	PPSU		
Physical	Nominal Value	Unit	Test Method
Density	1.29	g/cm³	ISO 1183
Apparent Density	0.70 to 0.80	g/cm³	
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	%	
Viscosity Number ¹	71.0	cm³/g	ISO 307
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	124	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2270	MPa	ISO 527-2
Tensile Stress (Yield)	74.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	7.8	%	ISO 527-2/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	24	kJ/m²	
23°C	60	kJ/m²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	No Break		

23°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	196	°C	ISO 75-2/A
Glass Transition Temperature ²	220	°C	ISO 11357-2
CLTE - Flow			
23 to 80°C	5.5E-5	cm/cm/°C	ISO 11359-2
180°C	6.3E-5	cm/cm/°C	DIN 53752
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.60 mm	V-0		
3.00 mm	V-0		
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	350	°C	
Middle Temperature	360	°C	
Front Temperature	370	°C	
Nozzle Temperature	370	°C	
Processing (Melt) Temp	350 to 390	°C	
Mold Temperature	140 to 180	°C	
Screw Speed	< 300	mm/sec	
NOTE			
1.	in 0,01 g/ml Phenol/1,2, ortho-Dichlorbenzol, 1:1		
2.	10°C/min		

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