

BASF Ultrason® S 3010 MR UN PSU

Category : Polymer , Thermoplastic , Polysulfone (PSU)

Material Notes:

Description: Unreinforced, higher viscosity injection molding and extrusion grade, tougher, with improved chemical resistance and demolding optimized. Abbreviated designation according to ISO 1043-1: PSInformation provided by BASF

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultrason-S-3010-MR-UN-PSU.php

Physical Properties	Metric	English	Comments
Bulk Density	0.700 - 0.800 g/cc	0.0253 - 0.0289 lb/in ³	
Density	1.234 g/cc	0.04458 lb/in ³	ISO 1183
Water Absorption	0.80 %	0.80 %	ISO 62
Moisture Absorption at Equilibrium	0.30 %	0.30 %	23°C; 50% RH; ISO 62
Viscosity Measurement	72	72	[cm ³ /g]; ISO 307
Linear Mold Shrinkage, Flow	0.0070 cm/cm	0.0070 in/in	ISO 2577, 294-4
Linear Mold Shrinkage, Transverse	0.0073 cm/cm	0.0073 in/in	ISO 2577, 294-4
Melt Flow	55.53 g/10 min @Load 10.0 kg, Temperature 360 °C	55.53 g/10 min @Load 22.0 lb, Temperature 680 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	135 MPa @Load 36.5 kg, Time 30.0 sec	19600 psi @Load 80.5 lb, Time 0.00833 hour	ISO 2039-1
Tensile Strength, Yield	75.0 MPa	10900 psi	50mm/min; ISO 527-1/-2
Elongation at Yield	5.7 %	5.7 %	50mm/min; ISO 527-1/-2
Tensile Modulus	2.60 GPa	377 ksi	ISO 527-1/-2
Izod Impact, Notched (ISO)	5.50 kJ/m ² @Temperature 23.0 °C	2.62 ft-lb/in ² @Temperature 73.4 °F	ISO 180/A
Charpy Impact Unnotched	NB @Temperature -30.0 °C	NB @Temperature -22.0 °F	ISO 179/1eU
	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 179/1eU

Mechanical Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	53.0 µm/m-°C	29.4 µin/in-°F	ISO 75-1/-2
	@Temperature 23.0 - 80.0 °C	@Temperature 73.4 - 176 °F	
	60.0 µm/m-°C	33.3 µin/in-°F	DIN 53752
	@Temperature 180 °C	@Temperature 356 °F	
Deflection Temperature at 1.8 MPa (264 psi)	175 °C	347 °F	ISO 75-1/-2
Glass Transition Temp, Tg	187 °C	369 °F	ISO 11357-1/-2
Decomposition Temperature	>= 400 °C	>= 752 °F	

Processing Properties	Metric	English	Comments
Processing Temperature	80.0 °C	176 °F	Hopper throat
Zone 1	330 °C	626 °F	Feed zone
Zone 2	340 °C	644 °F	Compression
Zone 3	350 °C	662 °F	Metering-zone
Zone 4	350 °C	662 °F	Nozzle
Melt Temperature	350 °C	662 °F	Optimal
	330 - 390 °C	626 - 734 °F	Injection molding/extrusion
Mold Temperature	120 - 160 °C	248 - 320 °F	Injection molding
	140 °C	284 °F	Optimal
Drying Temperature	140 °C	284 °F	
Dry Time	4 hour	4 hour	

Descriptive Properties	Value	Comments
Color	Light Yellow to Brownish	
Commercial Status	Europe	
Ignition Temperature	570°C	DIN 54836
Primary Processing Technique	Injection molding	

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