

BASF Ultrason® P 3010 MR SW 10101 PPSU

Category : Polymer , Thermoplastic , Polyphenylsulfone (PPSU)

Material Notes:

Description: Unreinforced, higher viscosity injection molding grade, flame retardant and with improved chemical resistance. This grade is black colored and demolding optimized. Abbreviated designation according to ISO 1043-1: PPSInformation provided by BASF

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultrason-P-3010-MR-SW-10101-PPSU.php

Physical Properties	Metric	English	Comments
Bulk Density	0.700 - 0.800 g/cc	0.0253 - 0.0289 lb/in ³	
Density	1.29 g/cc	0.0466 lb/in ³	ISO 1183
Water Absorption	1.2 %	1.2 %	ISO 62
Moisture Absorption at Equilibrium	0.60 %	0.60 %	23°C; 50% RH; ISO 62
Viscosity Measurement	71	71	[cm ³ /g]; ISO 307
Linear Mold Shrinkage, Flow	0.0090 cm/cm	0.0090 in/in	ISO 2577, 294-4
Linear Mold Shrinkage, Transverse	0.010 cm/cm	0.010 in/in	ISO 2577, 294-4
Melt Flow	45.15 g/10 min @Load 10.0 kg, Temperature 360 °C	45.15 g/10 min @Load 22.0 lb, Temperature 680 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	124 MPa @Load 36.5 kg, Time 30.0 sec	18000 psi @Load 80.5 lb, Time 0.00833 hour	ISO 2039-1
Tensile Strength, Yield	74.0 MPa	10700 psi	50mm/min; ISO 527-1/-2
Elongation at Yield	7.8 %	7.8 %	50mm/min; ISO 527-1/-2
Tensile Modulus	2.27 GPa	329 ksi	ISO 527-1/-2
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
Charpy Impact, Notched	2.40 J/cm ² @Temperature -30.0 °C	11.4 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eA

Mechanical Properties	Metric N/mm ² /cm ²	English ksi/lb/in ²	Comments
	@Temperature 23.0 °C	@Temperature 73.4 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	55.0 µm/m-°C	30.6 µin/in-°F	ISO 75-1/-2
	@Temperature 23.0 - 80.0 °C	@Temperature 73.4 - 176 °F	
	63.0 µm/m-°C	35.0 µin/in-°F	DIN 53752
	@Temperature 180 °C	@Temperature 356 °F	
Deflection Temperature at 1.8 MPa (264 psi)	196 °C	385 °F	ISO 75-1/-2
Glass Transition Temp, Tg	220 °C	428 °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	350 °C	662 °F	Feed zone
Zone 2	360 °C	680 °F	Compression
Zone 3	370 °C	698 °F	Metering-zone
Zone 4	370 °C	698 °F	Nozzle
Melt Temperature	350 - 390 °C	662 - 734 °F	Injection molding/extrusion
	370 °C	698 °F	Optimal
Mold Temperature	140 - 180 °C	284 - 356 °F	Injection molding
	160 °C	320 °F	Optimal
Drying Temperature	140 °C	284 °F	
Dry Time	4 hour	4 hour	

Descriptive Properties	Value	Comments
Color	Black	
Commercial Status	Europe	
Ignition Temperature	580-600°C	DIN 54836

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