

## BASF Ultrason® E 2010 SW Q31 10088 PESU

Category : Polymer , Thermoplastic , Polyethersulfone (PES)

### Material Notes:

Information provided by BASF

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_BASF-Ultrason-E-2010-SW-Q31-10088-PESU.php](http://www.lookpolymers.com/polymer_BASF-Ultrason-E-2010-SW-Q31-10088-PESU.php)

Physical Properties	Metric	English	Comments
Bulk Density	0.700 - 0.800 g/cc	0.0253 - 0.0289 lb/in <sup>3</sup>	
Density	1.37 g/cc	0.0495 lb/in <sup>3</sup>	ISO 1183
Water Absorption	2.2 %	2.2 %	ISO 62
Moisture Absorption at Equilibrium	0.80 %	0.80 %	23°C; 50% RH; ISO 62
Viscosity Measurement	56	56	[cm <sup>3</sup> /g]; ISO 307
Linear Mold Shrinkage, Flow	0.0082 cm/cm	0.0082 in/in	ISO 2577, 294-4
Linear Mold Shrinkage, Transverse	0.0086 cm/cm	0.0086 in/in	ISO 2577, 294-4
Melt Flow	95.9 g/10 min @Load 10.0 kg, Temperature 360 °C	95.9 g/10 min @Load 22.0 lb, Temperature 680 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	154 MPa @Load 36.5 kg, Time 30.0 sec	22300 psi @Load 80.5 lb, Time 0.00833 hour	ISO 2039-1
Tensile Strength, Yield	90.0 MPa	13100 psi	50mm/min; ISO 527-1/-2
Elongation at Yield	6.7 %	6.7 %	50mm/min; ISO 527-1/-2
Tensile Modulus	2.70 GPa	392 ksi	ISO 527-1/-2
Izod Impact, Notched (ISO)	6.50 kJ/m <sup>2</sup>	3.09 ft-lb/in <sup>2</sup>	ISO 180/A
Charpy Impact Unnotched	NB	NB	ISO 179/1eU
Charpy Impact, Notched	0.850 J/cm <sup>2</sup>	4.04 ft-lb/in <sup>2</sup>	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	52.0 µm/m-°C @Temperature 23.0 -	28.9 µin/in-°F @Temperature 73.4 -	ISO 75-1/-2

Thermal Properties	80.0 °C Metric	176 °F English	Comments
	59.0 µm/m-°C	32.8 µin/in-°F	DIN 53752
	@Temperature 180 °C	@Temperature 356 °F	
Deflection Temperature at 1.8 MPa (264 psi)	205 °C	401 °F	ISO 75-1/-2
Glass Transition Temp, Tg	225 °C	437 °F	ISO 11357-1/-2
Decomposition Temperature	>= 400 °C	>= 752 °F	
Flammability, UL94	V-0	V-0	
	@Thickness 1.60 mm	@Thickness 0.0630 in	

Processing Properties	Metric	English	Comments
Processing Temperature	80.0 °C	176 °F	Hopper throat
Zone 1	340 °C	644 °F	Feed zone
Zone 2	350 °C	662 °F	Compression
Zone 3	360 °C	680 °F	Metering-zone
Zone 4	360 °C	680 °F	Nozzle
Melt Temperature	360 °C	680 °F	Optimal
	340 - 390 °C	644 - 734 °F	Injection molding/extrusion
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
Commercial Status	Europe	
Ignition Temperature	580-600°C	DIN 54836
Primary Processing Technique	Injection molding	

## Contact Songhan Plastic Technology Co.,Ltd.

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