

## BASF Ultrason® E 2010 MR HP PESU

Category : Polymer , Thermoplastic , Polyethersulfone (PES)

### Material Notes:

Description: Unreinforced, medium viscosity standard injection molding grade for improved demolding behavior with Mold Release. PES-Blend with improved processibility. (High Productivity) Abbreviated designation according to ISO 1043-1: PESU. Information provided by BASF

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_BASF-Ultrason-E-2010-MR-HP-PESU.php](http://www.lookpolymers.com/polymer_BASF-Ultrason-E-2010-MR-HP-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	1.33 g/cc	0.0480 lb/in <sup>3</sup>	ISO 1183
Water Absorption	1.7 %	1.7 %	ISO 62
Moisture Absorption at Equilibrium	0.50 %	0.50 %	23°C; 50% RH; ISO 62
Viscosity Measurement	56	56	[cm <sup>3</sup> /g]; ISO 307
Linear Mold Shrinkage, Flow	0.0076 cm/cm	0.0076 in/in	ISO 2577, 294-4
Linear Mold Shrinkage, Transverse	0.0085 cm/cm	0.0085 in/in	ISO 2577, 294-4
Melt Flow	93.1 g/10 min @Load 10.0 kg, Temperature 360 °C	93.1 g/10 min @Load 22.0 lb, Temperature 680 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	192 MPa	27800 psi	ISO 2039-1
Tensile Strength, Yield	85.0 MPa	12300 psi	50mm/min; ISO 527-1/-2
Elongation at Break	80 %	80 %	Nominal; ISO 527-1/-2
Elongation at Yield	6.4 %	6.4 %	50mm/min; ISO 527-1/-2
Tensile Modulus	2.70 GPa	392 ksi	ISO 527-1/-2
Charpy Impact Unnotched	NB @Temperature -30.0 °C	NB @Temperature -22.0 °F	ISO 179/1eU
Charpy Impact Unnotched	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	0.700 J/cm <sup>2</sup>	3.33 ft-lb/in <sup>2</sup>	ISO 179/1eA

Mechanical Properties	@Temperature -30.0 °C Metric	@Temperature -22.0 °F English	Comments
	0.700 J/cm <sup>2</sup>	3.33 ft-lb/in <sup>2</sup>	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	220 °C	428 °F	
Decomposition Temperature	>= 400 °C	>= 752 °F	

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

## Contact Songhan Plastic Technology Co.,Ltd.

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