

Ultrason® P 3010 MR WS 20264
PPSU

BASF

Rheological properties	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	35	cm³/10min	ISO 1133
Temperature	360	°C	-
Load	10	kg	-
Molding shrinkage, parallel	0.9	%	ISO 294-4, 2577
Molding shrinkage, normal	1.0	%	ISO 294-4, 2577

Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2300	MPa	ISO 527
Yield stress	74	MPa	ISO 527
Yield strain	7.5	%	ISO 527
Impact Strength (Charpy), +23°C	no break	kJ/m²	ISO 179/1eU
Impact Strength (Charpy), -30°C	no break	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	69	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy), -30°C	25	kJ/m²	ISO 179/1eA
Notched Impact Strength (Izod), 23°C	55	kJ/m²	ISO 180/1A
Notched Impact Strength (Izod)	23	kJ/m²	ISO 180/1A
Temperature	-30	°C	-
Ball Indentation Hardness	124	MPa	ISO 2039-1

Thermal Properties	Value	Unit	Test Standard
ISO Data			
Glass Transition Temperature (10°C/min)	220	°C	ISO 11357-1/-2
Temp. of deflection under load (1.80 MPa)	197	°C	ISO 75-1/-2
Coeff. of Linear Therm. Expansion, parallel	55	E-6/K	ISO 11359-1/-2
Burning Behav. at 1.5 mm Nom. Thickn.	V-0	class	UL 94
Thickness tested	1.5	mm	-
Burning Behav. at thickness h	V-0	class	UL 94
Thickness tested	3.0	mm	-

Other Properties	Value	Unit	Test Standard
ISO Data			
Water Absorption	1.2	%	Sim. to ISO 62
Humidity absorption	0.6	%	Sim. to ISO 62
Density	1310	kg/m³	ISO 1183
Bulk density	750	kg/m³	-

Material Specific Properties	Value	Unit	Test Standard
ISO Data			
Viscosity number	71	cm³/g	ISO 307, 1157, 1628

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Melt temperature	350 - 390	°C	-
Mold temperature	140 - 180	°C	-

Characteristics

Processing

Injection Molding, Other Extrusion

Special Characteristics

Flame retardant, Heat aging stabilized

Delivery form

Pellets

Chemical Resistance

General Chemical Resistance, Environmental Stress Crack Resistance