

Ultrason® S 3010 MR UN
PSU

BASF

Rheological properties	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	45	cm³/10min	ISO 1133
Temperature	360	°C	-
Load	10	kg	-
Molding shrinkage, parallel	0.7	%	ISO 294-4, 2577
Molding shrinkage, normal	0.7	%	ISO 294-4, 2577

Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2600	MPa	ISO 527
Yield stress	75	MPa	ISO 527
Yield strain	5.8	%	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	5.5	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy), -30°C	6	kJ/m²	ISO 179/1eA
Notched Impact Strength (Izod), 23°C	5.5	kJ/m²	ISO 180/1A
Notched Impact Strength (Izod)	6	kJ/m²	ISO 180/1A
Temperature	-30	°C	-
Ball Indentation Hardness	135	MPa	ISO 2039-1

Thermal Properties	Value	Unit	Test Standard
ISO Data			
Glass Transition Temperature (10°C/min)	187	°C	ISO 11357-1/-2
Temp. of deflection under load (1.80 MPa)	177	°C	ISO 75-1/-2
Coeff. of Linear Therm. Expansion, parallel	53	E-6/K	ISO 11359-1/-2
Burning Behav. at 1.5 mm Nom. Thickn.	HB	class	UL 94
Thickness tested	1.6	mm	-
Burning Behav. at thickness h	V-2	class	UL 94
Thickness tested	3.0	mm	-

Other Properties	Value	Unit	Test Standard
ISO Data			
Water Absorption	0.8	%	Sim. to ISO 62
Humidity absorption	0.3	%	Sim. to ISO 62
Density	1230	kg/m³	ISO 1183

Material Specific Properties	Value	Unit	Test Standard
ISO Data			
Viscosity number	72	cm³/g	ISO 307, 1157, 1628

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	130 - 150	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.02	%	-
Melt temperature	330 - 390	°C	-
Mold temperature	120 - 160	°C	-
Feed temperature	80	°C	-
Maximum residence time	10	min	-

Characteristics

Processing

Injection Molding, Other Extrusion

Chemical Resistance

General Chemical Resistance

Delivery form

Pellets, Natural Color