

Ultrason® S 2010 G4 SW 15038
PSU-GF20

BASF

Rheological properties	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	40	cm³/10min	ISO 1133
Temperature	360	°C	-
Load	10	kg	-
Molding shrinkage, parallel	0.3	%	ISO 294-4, 2577
Molding shrinkage, normal	0.5	%	ISO 294-4, 2577

Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	6600	MPa	ISO 527
Stress at Break	115	MPa	ISO 527
Strain at Break	2.9	%	ISO 527
Impact Strength (Charpy), +23°C	50	kJ/m²	ISO 179/1eU
Impact Strength (Charpy), -30°C	55	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	8	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy), -30°C	8	kJ/m²	ISO 179/1eA
Notched Impact Strength (Izod), 23°C	8	kJ/m²	ISO 180/1A
Notched Impact Strength (Izod)	8	kJ/m²	ISO 180/1A
Temperature	-30	°C	-
Ball Indentation Hardness	170	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)	184	°C	ISO 75-1/-2
Coeff. of Linear Therm. Expansion, parallel	26	E-6/K	ISO 11359-1/-2
Burning Behav. at 1.5 mm Nom. Thickn.	V-1	class	UL 94
Thickness tested	1.6	mm	-
Burning Behav. at thickness h	V-0	class	UL 94
Thickness tested	3.0	mm	-

Electrical Properties	Value	Unit	Test Standard
ISO Data			
Relative permittivity, 100Hz	3.5	-	IEC 62631-2-1
Relative permittivity, 1MHz	3.5	-	IEC 62631-2-1
Dissipation Factor, 100Hz	10	E-4	IEC 62631-2-1
Dissipation Factor, 1MHz	60	E-4	IEC 62631-2-1
Volume Resistivity	>1E13	Ohm*m	IEC 62631-3-1
Surface Resistivity	>1E15	Ohm	IEC 62631-3-2
Electric Strength	46	kV/mm	IEC 60243-1
Comparative tracking index	125	-	IEC 60112

Other Properties	Value	Unit	Test Standard
ISO Data			
Water Absorption	0.7	%	Sim. to ISO 62
Humidity absorption	0.2	%	Sim. to ISO 62
Density	1380	kg/m³	ISO 1183

Material Specific Properties	Value	Unit	Test Standard
ISO Data			
Viscosity number	63	cm³/g	ISO 307, 1157, 1628

Characteristics

Processing

Injection Molding, Other Extrusion

Delivery form

Pellets, Black

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