Ultrason® S 2010 G2 SW 15038

PSU-GF10 BASF

Rheological properties	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	60	cm³/10min	ISO 1133
Temperature	360	°C	-
Load	10	kg	-

Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	4200	MPa	ISO 527
Stress at Break	85	MPa	ISO 527
Strain at Break	3.5	%	ISO 527
Impact Strength (Charpy), +23°C	55	kJ/m²	ISO 179/1eU
Impact Strength (Charpy), -30°C	60	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	5.5	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy), -30°C	5.5	kJ/m²	ISO 179/1eA
Notched Impact Strength (Izod), 23°C	5.5	kJ/m²	ISO 180/1A
Notched Impact Strength (Izod)	5.5	kJ/m²	ISO 180/1A
Temperature	-30	°C	-

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)	180	°C	ISO 75-1/-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	-

Other Properties	Value	Unit	Test Standard
ISO Data			
Water Absorption	0.8	%	Sim. to ISO 62
Humidity absorption	0.2	%	Sim. to ISO 62
Density	1300	kg/m³	ISO 1183
Bulk density	750	kg/m³	-

Material Specific Properties	Value	Unit	Test Standard
ISO Data			
Viscosity number	63	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	-
Melt temperature	350 - 390	°C	-
Mold temperature	130 - 180	°C	-

Characteristics

Processing

Injection Molding, Other Extrusion

Delivery form

Pellets, Black