

Ultrason® E 2010 G6 SW 15038
PESU-GF30

BASF

Rheological properties	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	25	cm³/10min	ISO 1133
Temperature	360	°C	-
Load	10	kg	-
Molding shrinkage, parallel	0.3	%	ISO 294-4, 2577
Molding shrinkage, normal	0.6	%	ISO 294-4, 2577

Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	9800	MPa	ISO 527
Stress at Break	150	MPa	ISO 527
Strain at Break	2.3	%	ISO 527
Impact Strength (Charpy), +23°C	55	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	10	kJ/m²	ISO 179/1eA
Notched Impact Strength (Izod), 23°C	10	kJ/m²	ISO 180/1A
Ball Indentation Hardness	224	MPa	ISO 2039-1

Thermal Properties	Value	Unit	Test Standard
ISO Data			
Glass Transition Temperature (10°C/min)	225	°C	ISO 11357-1/-2
Temp. of deflection under load (1.80 MPa)	220	°C	ISO 75-1/-2
Coeff. of Linear Therm. Expansion, parallel	15	E-6/K	ISO 11359-1/-2
Burning Behav. at 1.5 mm Nom. Thickn.	V-0	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			
Electric Strength	38	kV/mm	IEC 60243-1

Other Properties	Value	Unit	Test Standard
ISO Data			
Water Absorption	1.6	%	Sim. to ISO 62
Humidity absorption	0.6	%	Sim. to ISO 62
Density	1600	kg/m³	ISO 1183

Material Specific Properties	Value	Unit	Test Standard
ISO Data			
Viscosity number	56	cm³/g	ISO 307, 1157, 1628

Characteristics

Processing

Injection Molding, Other Extrusion

Delivery form

Pellets, Black