

Product Texts

Polyamide 6, 30% Glass Fibre reinforced, high impact grade, also available UV Stabilized (UV).

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.2	%	ISO 294-4, 2577
Molding shrinkage, normal	0.8	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	6300	MPa	ISO 527
Stress at break	93	MPa	ISO 527
Strain at break	5.5	%	ISO 527
Flexural modulus, 23°C	5800	MPa	ISO 178
Charpy impact strength, +23°C	45	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	7	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C	8	kJ/m ²	ISO 180/1A

Thermal properties	Value	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	216	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	185	°C	ISO 75-1/-2
Vicat softening temperature, B	195	°C	ISO 306
Burning behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.6	mm	-
Burning behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	3.2	mm	-
Burning rate, FMVSS, Thickness 1 mm	100	mm/min	ISO 3795 (FMVSS 302)
Glow Wire Flammability Index (GWFI)	650	°C	IEC 60695-2-12
GWFI - thickness tested (1)	2	mm	-

Other properties	Value	Unit	Test Standard
Humidity absorption	0.15	%	Sim. to ISO 62
Density	1340	kg/m ³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	75	°C	-
Pre-drying - Time	3 - 4	h	-
Processing humidity	≤0.12	%	-
Melt temperature	240 - 270	°C	-
Mold temperature	70 - 90	°C	-
Zone 1	220 - 230	°C	-
Zone 2	230 - 245	°C	-
Zone 3	250 - 260	°C	-
Nozzle temperature	250 - 260	°C	-
Screw speed	50 - 80	rpm	-
Back pressure	0.4 - 0.8	MPa	-
Holding pressure	6 - 8	MPa	-

Characteristics
Processing

Injection Molding

Special Characteristics

High impact or impact modified, U.V. stabilized or stable to weather

Delivery form

Black

Regional Availability

Europe