

Product Texts

Medium viscosity polyamide 6 eco grade with 50% glass fiber reinforcement and heat stabilisation. High sustainability due to recycled raw materials.

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	15500 / 10000	MPa	ISO 527
Stress at break	165 / 105	MPa	ISO 527
Strain at break	1.8 / 3.5	%	ISO 527
Flexural modulus, 23°C	10500 / -	MPa	ISO 178
Flexural strength	210 / -	MPa	ISO 178
Charpy impact strength, +23°C	60 / 75	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	40 / -	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	12 / 17	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	10 / -	kJ/m ²	ISO 179/1eA

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	220 / *	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	200 / *	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	210 / *	°C	ISO 75-1/-2
Burning behav. at 1.5 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	1.6 / *	mm	-

Other properties	dry / cond	Unit	Test Standard
Water absorption	4.5 / *	%	Sim. to ISO 62
Humidity absorption	1.5 / *	%	Sim. to ISO 62
Density	1560 / -	kg/m ³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	4 - 8	h	-
Processing humidity	≤0.1	%	-
Mold temperature	40 - 80	°C	-
Feed temperature	60 - 80	°C	-
Zone 1	240 - 260	°C	-
Nozzle temperature	250 - 270	°C	-
Maximum residence time	10	min	-

Characteristics

Processing

Injection Molding

Certifications

Recycled Resin Content

Delivery form

Pellets

Regional Availability

Europe

Features

Thermal Stability