

Product Texts

Special PA 50% glass fibre reinforced, high flow injection moulding grade. Heat stabilized. Drinking water and food contact. Natural colour.

General purpose metal replacement product with good resistance to hydrolysis, enhanced mechanical properties after moisture pick-up. Specifically intended for use in applications in civil and industrial water management as well as appliances and consumer goods. Suitable for parts requiring very high stiffness and high mechanical resistance along with high surface quality and superior gloss.

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
^[C] Molding shrinkage, parallel	0.2 / *	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	0.6 / *	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	17900 / 17000	MPa	ISO 527
^[C] Stress at break	260 / 215	MPa	ISO 527
^[C] Strain at break	3.2 / 3.6	%	ISO 527
^[C] Charpy impact strength, +23°C	110 / 115	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	17 / 20	kJ/m ²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	260 / *	°C	ISO 11357-1/-3
^[C] Coeff. of linear therm. expansion, parallel	19 / *	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	68 / *	E-6/K	ISO 11359-1/-2

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Humidity absorption	1.1 / *	%	Sim. to ISO 62
^[C] Density	1580 / -	kg/m ³	ISO 1183

[C]: CAMPUS

Characteristics

Processing

Injection Molding

Delivery form

Granules, Natural Color

Additives

Release agent

Special Characteristics

Heat stabilized or stable to heat

Features

High Gloss

Chemical Resistance

Hydrolytically Stable

Certifications

Food contact, Drinking water contact

Applications

General Purpose

Regional Availability

North America, Europe, Asia Pacific, South and Central America, Near East/Africa

Other text information

Injection molding

The material is delivered in moisture-proof packaging ready for processing. Maximum recommended water content for best processing is 0.15%. Typical conditions with a desiccant drier: temperature 80 °C, dew point -20 °C or below, time 2-4 h or more. Special care must be taken to avoid moisture absorption and contamination with other polymers when adding regrind material.

Colour variation and mechanical properties reduction may occur and should always be carefully monitored.

Injection Molding Processing Parameters

Melt Temperature
280 - 300°C

Mold Temperature
80 - 100°C

Injection Speed
medium-high