

Product Texts

PPS 40% glass fibre reinforced injection moulding grade. Heat stabilized. Natural colour.

Balanced matching of excellent chemical resistance, inherent flame retardancy and very good heat ageing properties retention. Suitable for parts requiring very high stiffness and high mechanical strength.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
^[C] Molding shrinkage, parallel	0.1	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	0.6	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	14600	MPa	ISO 527
^[C] Stress at break	195	MPa	ISO 527
^[C] Strain at break	1.8	%	ISO 527
^[C] Charpy impact strength, +23°C	50	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	10	kJ/m ²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	280	°C	ISO 11357-1/-3
^[C] Temp. of deflection under load, 1.80 MPa	265	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	270	°C	ISO 75-1/-2
^[C] Coeff. of linear therm. expansion, parallel	16	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	46	E-6/K	ISO 11359-1/-2
Yellow Card available	yes	-	-
^[C] Burning Behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	0.8	mm	-

[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
ISO Data			
^[C] Comparative tracking index	125	-	IEC 60112

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
^[C] Density	1630	kg/m ³	ISO 1183

[C]: CAMPUS

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	115	°C	-
Pre-drying - Time	3 - 4	h	-
Processing humidity	≤0.05	%	-
Melt temperature	300 - 340	°C	-
Mold temperature	140 - 160	°C	-

Characteristics

Processing

Injection Molding

Delivery form

Granules, Natural Color

Special Characteristics

Flame retardant, Heat stabilized or stable to heat

Chemical Resistance

General Chemical Resistance

Additives

Release agent

Regional AvailabilityNorth 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 0.05%. Typical conditions with a desiccant drier: temperature 115° C, dew point -20°C or below, time 3-4h or more. Avoid excessive shear rates and high thermal stresses for better processing. 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

300 - 340°C

Mold Temperature

140 - 160°C

Injection Speed

low-medium