

Product Texts

30% glass fibre reinforced PA 6

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.002	mm/mm	ASTM D 955
Mechanical properties			
	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	8800 / -	MPa	ISO 527
^[C] Stress at break	160 / 100	MPa	ISO 527
^[C] Strain at break	3.5 / 8	%	ISO 527
^[C] Charpy impact strength, +23°C	85 / N	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	60 / -	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	14 / 30	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	9 / -	kJ/m ²	ISO 179/1eA
ASTM Data			
Tensile Strength at Break	137 / -	MPa	ASTM D 638
Elongation at Break	2 / -	%	ASTM D 638
Flexural Modulus	7701 / -	MPa	ASTM D 790
Flexural Strength	177 / -	MPa	ASTM D 790
Izod Impact notched, 1/8 in	85.4 / -	J/m	ASTM D 256
^[C] : CAMPUS			
Thermal properties			
	dry / cond	Unit	Test Standard
ISO Data			
^[C] Temp. of deflection under load, 1.80 MPa	200 / *	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	215 / *	°C	ISO 75-1/-2
^[C] Burning Behav. at 1.5 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	1.5 / *	mm	-
Yellow Card available	yes / *	-	-
^[C] Burning Behav. at thickness h	HB / *	class	IEC 60695-11-10
Thickness tested	3.0 / *	mm	-
Yellow Card available	yes / *	-	-
ASTM Data			
DTUL @ 66 psi	218	°C	ASTM D 648
DTUL @ 264 psi	202	°C	ASTM D 648
^[C] : CAMPUS			
Electrical properties			
	dry / cond	Unit	Test Standard
ISO Data			
^[C] Volume resistivity	>1E13 / -	Ohm*m	IEC 62631-3-1
^[C] Surface resistivity	* / >1E15	Ohm	IEC 62631-3-2
^[C] : CAMPUS			
Other properties			
	dry / cond	Unit	Test Standard
^[C] Density	1370 / -	kg/m ³	ISO 1183
Density	1360	kg/m ³	ASTM D 792
^[C] : CAMPUS			
Material specific properties			
	dry / cond	Unit	Test Standard
ISO Data			
^[C] Viscosity number	145 / *	cm ³ /g	ISO 307, 1157, 1628
^[C] : CAMPUS			

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	4 - 6	h	-
Melt temperature	250 - 280	°C	-
Mold temperature	60 - 90	°C	-

Characteristics

Processing

Injection Molding

Additives

Release agent

Delivery form

Granules

Regional Availability

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

Other text information

Injection molding

PREPROCESSING; **Pretreatment**

Predrying: 4-6h / 80°C

PROCESSING ;**Processing:**

Melttemperature	250 - 280	°C
Mouldtemperature	60 - 90	°C