

Technical Data Sheet

Polyman PC XP 41 R 30GF NAT

Polycarbonate

Product Description

30% glass fibre reinforced PC grade

Processing Method Injection Molding**Filler/Reinforcement** Glass Fiber, 30%**Resin ID** PC-GF

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Volume Flow Rate, (300 °C/1.2 kg)	5.0	cm ³ /10 min	ISO 1133
Density, (Method A)	1.41	g/cm ³	ISO 1183
Mechanical			
Tensile Strain at Break, (Type 1A, 5 mm/min)	3.0	%	ISO 527-2
Tensile Stress at Break, (Type 1A, 5 mm/min)	130	MPa	ISO 527-2
Tensile Modulus, (1 mm/min, Type 1A)	8400	MPa	ISO 527-1
Impact			
Charpy Impact Strength - Notched, (23 °C, Type 1, Edgewise, Notch A)	11	kJ/m ²	ISO 179
Hardness			
Ball Indentation Hardness, (H 358/30)	153	MPa	ISO 2039-1
Thermal			
Vicat Softening Temperature, (B (50N), 50 °C/h)	151	°C	ISO 306
Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)	147	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	139	°C	ISO 75-2/A
Electrical			
Volume Resistivity	>1.0E+13	ohm*m	IEC 62631-3-1
Comparative Tracking Index (CTI)	175	V	IEC 60112
Surface Resistivity	>1.0E+15	ohm	IEC 60093
Flammable			
Burning Rate			
(2.00 mm)	<100	mm/min	ISO 3795
(2.00 mm)	<100	mm/min	FMVSS 302
UL Information			

Flammability Classification

(1.5 mm)	HB	IEC 60695-11-10, - 20
(3.0 mm)	HB	IEC 60695-11-10, - 20

Injection Parameters	Nominal	
	Value	Units
Drying Time	4.0 to 12	hr
Drying Temperature	120	°C
Processing (Melt) Temp	280 to 310	°C
Mold Temperature	85 to 115	°C
