Technical Data Sheet

Polyflam RPC XP31 GF10 GRY61404

Polycarbonate

Product Description

Flame retardant 10% glass fibre reinforced PC grade.

Processing Method	Injection Molding
Attribute	Flame Retardant; Halogenated
Forms	Pellets
Filler/Reinforcement	Glass Fiber, 10%

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (300 °C/1.2 kg)	10	g/10 min	ISO 1133
Density	1,27	g/cm³	ISO 1183
Mechanical			
Flexural Modulus, (23 °C)	3700	MPa	ISO 178
Flexural Strength, (23 °C)	110	MPa	ISO 178
Impact			
Charpy Impact Strength - Notched, (23 °C, Type 1, Edgewise)	10	kJ/m²	ISO 179
Charpy Impact Strength - Unnotched, (23 °C, Type 1, Edgewise)	50	kJ/m²	ISO 179
Hardness			
Ball Pressure Test, (135 °C)	Pass		IEC 60695-10-2
Thermal			
Vicat Softening Temperature			
(B (50N), 50 °C/h)	106	°C	ISO 306
(A (10N), 50 °C/h)	150	°C	ISO 306
Deflection Temperature Under Load, (1.80 MPa, Unannealed)	132	°C	ISO 75-2/A
Electrical			
Comparative Tracking Index (CTI), (Solution A)	125	V	IEC 60112
Flammable			
Flame Rating - UL, (3.0 mm)	V-0		UL 94
Glow Wire Flammability Index, (3.0 mm)	960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature, (3.0 mm)	850	°C	IEC 60695-2-13

Injection Parameters	Nominal Value	Units
Drying Time	3-4	hr
Drying Temperature	100-120	°C
Suggested Max Moisture	0,01-0,02	%
Processing (Melt) Temp	270-310	°C
Mold Temperature	50-80	°C