Technical Data Sheet

Percom KCG30 NATURAL

Polypropylene Copolymer

Product Description

Percom KCG 30F is a Polypropylene Copolymer (PPCP) material filled with 30% glass fiber, chemically coupled.

Processing Method	Injection Molding
Attribute	Chemically Coupled; Copolymer
Filler/Reinforcement	Glass Fiber, 30%

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	5.0	g/10 min	ISO 1133
Density	1.12	g/cm³	ISO 1183
Mechanical			
Tensile Stress at Yield, (Type 1A)	77.0	MPa	ISO 527-2
Flexural Modulus	5300	MPa	ISO 178
Tensile Strain at Yield, (Type 1A)	2.0	%	ISO 527-2
Impact			
Notched Izod Impact Strength			
(23 °C, Type 1, Notch A)	12	kJ/m²	ISO 180
(-20 °C, Type 1, Notch A)	5.0	kJ/m²	ISO 180
Thermal			
Vicat Softening Temperature, (A (10N), 50 °C/h)	138	°C	ISO 306
Deflection Temperature Under Load Unannealed (1.80 MPa)	148	°C	ISO 75-2/A
Electrical			
Volume Resistivity	>1.0E+13	ohm*cm	IEC 60093
Dielectric Constant	2.5		ASTM D150
Comparative Tracking Index (CTI)	>650	V	IEC 60112
Surface Resistivity	>1.0E+15	ohm	IEC 60093
Flammable			
Burning Rate			
(2.00 mm)	<100	mm/min	FMVSS 302
(2.00 mm)	<100	mm/min	ISO 3795
UL Information			
Flame Rating			
(1.6 mm)	HB		UL 94
(3.2 mm)	HB		UL 94

Injection Parameters	Nominal Value	Units
Drying Time	2.0 to 3.0	hr
Drying Temperature	80	°C
Processing (Melt) Temp	220 to 260	°C
Mold Temperature	30 to 60	°C