SLOVALEN® PC 51 C 60

Polypropylene

Plastcom

Message:

Modified copolymer PP for injection moulding with the contenct of 60% microground, chemically modified chalk. Increased strength, rigidity and thermal application up to 100°C depending on the talc content. Decreased shrinkage. Fulfills the glow wire 750°C. Delivered in the full RAL colour scale.

General Information			
Filler / Reinforcement	Chalk,60% Filler by Weight		
Features	Good Stiffness Good Strength		
Appearance	Colors Available Natural Color		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.58	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	10	g/10 min	ISO 1133
Molding Shrinkage			STM 64 0808
Across Flow	0.40	%	
Flow	0.40	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	4800	MPa	ISO 527-2
Tensile Stress (Yield)	12.0	MPa	ISO 527-2
Tensile Strain (Yield)	15	%	ISO 527-2
Flexural Modulus	4800	MPa	ISO 178
Flexural Stress	55.0	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179
-20°C	2.0	kJ/m²	
23°C	5.0	kJ/m²	
Charpy Unnotched Impact Strength			ISO 179
-20°C	18	kJ/m²	
23°C	45	kJ/m²	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (0.45 MPa, Unannealed)	65.0	°C	ISO 75-2/B
Vicat Softening Temperature	185	°C	ISO 306/B
Melting Temperature (DSC)	140	°C	ISO 3146

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+14	ohms	IEC 60093
Volume Resistivity	1.0E+15	ohms·cm	IEC 60093
Electric Strength	25	kV/mm	IEC 60243-1
Comparative Tracking Index (Solution A)	350	V	IEC 60112
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating	HB		UL 94
Glow Wire Ignition Temperature	750	°C	IEC 60695-2-13
Injection	**Nominal Value**	**Unit**	
Drying Temperature	80.0	°C	
Drying Time	2.0	hr	
Processing (Melt) Temp	220 to 240	°C	
Mold Temperature	30.0 to 40.0	°C	
Injection Pressure	40.0 to 80.0	MPa	

Recommended distributors for this material

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