SLOVAMID® 66 GF 10 GB 20

Polyamide 66

Plastcom

Message:

PA 66 chemically reinforced with 10 % glass fibre and with the content of 20% glass beads. Improved anisotropy of shrinkage. The relation of the anisotropy to the mechanical properties can be changed by the ideal combination of the glass fibre and the glass beads. High surface brightness, low rolling resistance force. Manufacturing of exact parts /mainly in flat form/, throttle valves in air piping. Increased strength and tension modulus in tension due to the addition of glass fibre. Delivered in the full RAL colour scale.

General Information			
Filler / Reinforcement	Glass Bead,20% Filler by Weight Glass Fiber,10% Filler by Weight		
Features	Chemically Coupled Good Stiffness Good Strength High Gloss		
Appearance	Colors Available Natural Color		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	PA 66		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.36	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (275°C/0.325 kg)	1.0	g/10 min	ISO 1133
Molding Shrinkage			STM 64 0808
Across Flow	1.6	%	
Flow	1.0	%	
Water Content	0.15	%	ISO 960
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	5000	MPa	ISO 527-2
Tensile Stress (Yield)	90.0	MPa	ISO 527-2
Tensile Strain (Yield)	2.0	%	ISO 527-2
Flexural Modulus	5400	MPa	ISO 178
Flexural Stress	140	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179
-20°C	3.0	kJ/m²	
23°C	3.0	kJ/m²	

Charpy Unnotched Impact Strength			ISO 179
-20°C	14	kJ/m²	
23°C	20	kJ/m²	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (0.45 MPa, Unannealed)	215	°C	ISO 75-2/B
Vicat Softening Temperature	250	°C	ISO 306/B
Melting Temperature (DSC)	260	°C	ISO 3146
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+14	ohms	IEC 60093
Volume Resistivity	1.0E+17	ohms·cm	IEC 60093
Electric Strength	40	kV/mm	IEC 60243-1
Comparative Tracking Index	450	V	IEC 60112
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating	HB		UL 94
Glow Wire Ignition Temperature	650	°C	IEC 60695-2-13
Injection	**Nominal Value**	**Unit**	
Drying Temperature	80.0	°C	
Drying Time	4.0	hr	
Processing (Melt) Temp	280 to 300	°C	
Mold Temperature	70.0 to 80.0	°C	
Injection Pressure	70.0 to 120	MPa	

Recommended distributors for this material

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