SLOVAMID® 6 GF 10 FRC 2

Polyamide 6

Plastcom

Message:

PA 6 for injection moulding, chemically strengthened with 10 % glass fibre. Application: impacted mouldings and mouldings with high strength applied in automotive, electrical, engineering and consumer-goods industry, eg.: grips for electro tools, hobby tools, gears, cases of the electrotools, cooling skrews of blowers, electromotors, carrying parts in the automotive industry. With the increasing content of GF also the toughness, bending and tensile strength increase as well as the heat application increases up to 250°C and the shrinkage decreases. Delivered in natural mode and in the full RAL colour scale.

General Information	
Filler / Reinforcement	Glass Fiber,10% Filler by Weight
Additive	Flame Retardant
Features	Chemically Coupled Flame Retardant High Strength
Uses	Automotive Applications Consumer Applications Electrical/Electronic Applications Engineering Parts Flexible Grips Gears Power/Other Tools
Appearance	Colors Available Natural Color
Processing Method	Injection Molding
Resin ID (ISO 1043)	PA 6

Physical	Nominal Value	Unit	Test Method
Density	1.23	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	3.0	g/10 min	ISO 1133
Molding Shrinkage			STM 64 0808
Across Flow	1.6	%	
Flow	0.67	%	
Water Content	0.15	%	ISO 960

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	5800	MPa	ISO 527-2
Tensile Stress (Yield)	90.0	MPa	ISO 527-2
Tensile Strain (Yield)	4.0	%	ISO 527-2

Flexural Modulus	4800	MPa	ISO 178
Flexural Stress	160	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179
-20°C	2.0	kJ/m²	
23°C	3.0	kJ/m²	
Charpy Unnotched Impact Strength			ISO 179
-20°C	20	kJ/m²	
23°C	25	kJ/m²	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (0.45 MPa, Unannealed)	200	°C	ISO 75-2/B
Vicat Softening Temperature	200	°C	ISO 306/B
Melting Temperature (DSC)	220	°C	ISO 3146
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating	V-2		UL 94
Glow Wire Ignition Temperature	850	°C	IEC 60695-2-13
Injection	**Nominal Value**	**Unit**	
Drying Temperature	80.0	°C	
Drying Time	4.0	hr	
Processing (Melt) Temp	250 to 270	°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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