Technical Data Sheet

Schulamid 66 GF30XTBK

Polyamide 66

Product Description
30% glass bead filled PA66

Processing Method	Injection Molding
Filler/Reinforcement	Glass Bead, 30%

Typical Properties	Nominal Value	Units	Test Method
Physical			
Density, (Method A)	1.35	g/cm³	ISO 1183
Viscosity Number	140	cm³/g	ISO 307
Mechanical			
Tensile Strain at Break			
(Type 1A, 5 mm/min)	7.5	%	ISO 527-2
(Type 1A, 5 mm/min) - Conditioned	11	%	ISO 527-2
Tensile Stress at Break			
(Type 1A, 5 mm/min)	95.0	MPa	ISO 527-2
(Type 1A, 5 mm/min) - Conditioned	65.0	MPa	ISO 527-2
Tensile Modulus			
(1 mm/min, Type 1A)	4500	MPa	ISO 527-1
(1 mm/min, Type 1A) - Conditioned	2500	MPa	ISO 527-1
Impact			
Charpy Impact Strength - Notched, (23 °C, Type 1, Edgewise, Notch A)	4.0	kJ/m²	ISO 179
Charpy Impact Strength - Unnotched, (23 °C, Type 1, Edgewise)	30	kJ/m²	ISO 179
Hardness			
Ball Indentation Hardness, (H 358/30)	185	MPa	ISO 2039-1
Ball Pressure Test, (125 °C)	Pass		IEC 60695-10-2
Thermal			
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	90.0	°C	ISO 75-2/A
Electrical			
Volume Resistivity	>1.0E+13	ohm*m	IEC 62631-3-1
- Conditioned	10000000000	ohm*m	IEC 62631-3-1
Comparative Tracking Index (CTI)	450	V	IEC 60112
Surface Resistivity	>1.0E+15	ohm	IEC 60093
Flammable			

Burning Rate			
(2.00 mm)	<100	mm/min	ISO 3795
(2.00 mm)	<100	mm/min	FMVSS 302
Glow Wire Flammability Index	650	°C	IEC 60695-2-12

Injection Parameters	Nominal Value	Units
Drying Time	3.0 to 4.0	hr
Drying Temperature	80	°C
Suggested Max Moisture	0.040 to 0.10	%
Processing (Melt) Temp	280 to 300	°C
Mold Temperature	60 to 120	°C