Technical Data Sheet

Schulamid 66 CF30 H BLK968001

Polyamide 66

Product Description

30% carbon fiber reinforced Polyamide 66, available with different kinds of Heat Stabilizations Systems

Processing Method	Injection Molding
Filler/Reinforcement	Carbon Fiber, 30%

Typical Properties	Nominal Value	Units	Test Method
Physical			
Density, (Method A)	1.27	g/cm³	ISO 1183
Viscosity Number	145	cm³/g	ISO 307
Mechanical			
Tensile Strain at Break			
(Type 1A, 5 mm/min)	2.0	%	ISO 527-2
(Type 1A, 5 mm/min) - Conditioned	3.0	%	ISO 527-2
Flexural Modulus, (2.0 mm/min)	20500	MPa	ISO 178
Tensile Stress at Break			
(Type 1A, 5 mm/min)	255	MPa	ISO 527-2
(Type 1A, 5 mm/min) - Conditioned	210	MPa	ISO 527-2
Tensile Modulus			
(1 mm/min, Type 1A)	22200	MPa	ISO 527-1
(1 mm/min, Type 1A) - Conditioned	16100	MPa	ISO 527-1
Flexural Stress			
(2.0 mm/min, 2.8%)	400	MPa	ISO 178
(2.0 mm/min, 2.8%)	390	MPa	ISO 178
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	10	kJ/m²	ISO 179
(-30 °C, Type 1, Edgewise, Notch A)	7.5	kJ/m²	ISO 179
(23 °C, Type 1, Edgewise, Notch A) - Conditioned	13	kJ/m²	ISO 179
Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	80	kJ/m²	ISO 179
(-30 °C, Type 1, Edgewise)	65	kJ/m²	ISO 179
(23 °C, Type 1, Edgewise) - Conditioned	90	kJ/m²	ISO 179
Thermal			
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	>250	°C	ISO 75-2/A
Electrical			

Volume Resistivity	100	ohm*m	IEC 62631-3-1
Flammable			
Burning Rate			
(2.00 mm)	<100	mm/min	ISO 3795
(2.00 mm)	<100	mm/min	FMVSS 302

Injection Parameters	Nominal Value	Units
Drying Time	3.0 to 4.0	hr
Drying Temperature	80	°C
Processing (Melt) Temp	260 to 300	°C
Mold Temperature	60 to 120	°C