Technical Data Sheet

Schulatec PA6 HC 7150 NAT

Polyamide 6

Product Description

High heat conductivity PA6 with improved stiffness and strength.

Processing Method Injection Molding

Typical Properties	Nominal Value	Units	Test Method
Physical			
Density, (Method A)	1.80	g/cm³	ISO 1183
Viscosity Number	125	cm³/g	ISO 307
Mechanical			
Tensile Strain at Break, (Type 1A, 5 mm/min)	1.9	%	ISO 527-2
Tensile Stress at Break, (Type 1A, 5 mm/min)	120	MPa	ISO 527-2
Tensile Modulus, (1 mm/min, Type 1A)	12500	MPa	ISO 527-1
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	5.0	kJ/m²	ISO 179
(-30 °C, Type 1, Edgewise, Notch A)	3.5	kJ/m²	ISO 179
Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	30	kJ/m²	ISO 179
(-30 °C, Type 1, Edgewise)	24	kJ/m²	ISO 179
Thermal			
Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)	215	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	200	°C	ISO 75-2/A
Electrical			
Thermal Conductivity	1.2	W/m/K	ISO 8302
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	2.0 to 4.0	hr
Drying Temperature	80	°C
Suggested Max Moisture	0.1	%
Processing (Melt) Temp	250 to 280	°C
Mold Temperature	60 to 100	°C