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Technical Data Sheet

Schulamid 66 SK1000 BLK968001

Polyamide 66

Product Description

Schulamid 66 SK1000 BLK968001 is a Polyamide 66 material and is typically used in Injection Molding applications. Features include: Low Temperature Toughness, Medium Viscosity, Oil Resistant, Ultra High Impact Resistance, and Ultra High Toughness.

Processing Method	Injection Molding
Attribute	Low Temperature Toughness; Medium Viscosity; Oil Resistant; Ultra High Impact Resistance; Ultra High Toughness
Resin ID	PA66-HI

Typical Properties	Nominal Value	Units	Test Method
Physical			
Density, (Method A)	1.07	g/cm³	ISO 1183
Mechanical			
Flexural Strain at Flexural Strength	7	%	ISO 178
Tensile Stress at Yield			
(Type 1A, 50 mm/min)	50.0	MPa	ISO 527-2
(Type 1A, 50 mm/min) - Conditioned	30.0	MPa	ISO 527-2
Nominal Tensile Strain at Break			
(50 mm/min, Type 1A) - Conditioned	>100	%	ISO 527-2
(50 mm/min, Type 1A)	>40	%	ISO 527-2
Flexural Modulus, (2.0 mm/min)	1650	MPa	ISO 178
Tensile Strain at Yield			
(Type 1A, 50 mm/min)	7.0	%	ISO 527-2
(Type 1A, 50 mm/min) - Conditioned	32	%	ISO 527-2
Tensile Modulus			
(1 mm/min, Type 1A)	1800	MPa	ISO 527-1
(1 mm/min, Type 1A) - Conditioned	600	MPa	ISO 527-1
Flexural Stress, (2.0 mm/min)	62.0	MPa	ISO 178
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	75	kJ/m²	ISO 179
(-30 °C, Type 1, Edgewise, Notch A)	25	kJ/m²	ISO 179
(23 °C, Type 1, Edgewise, Notch A) - Conditioned	120	kJ/m²	ISO 179

Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	No Break		ISO 179
(-30 °C, Type 1, Edgewise)	No Break		ISO 179
(23 °C, Type 1, Edgewise) - Conditioned	No Break		ISO 179
Thermal			
Vicat Softening Temperature			
(B (50N), 50 °C/h)	175	°C	ISO 306
(A (10N), 50 °C/h)	>250	°C	ISO 306
Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)	135	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	60.0	°C	ISO 75-2/A
RTI Elec			
(1.5 mm)	65.0	°C	UL 746B
(3.0 mm)	65.0	°C	UL 746B
RTI Imp			
(1.5 mm)	65.0	°C	UL 746B
(3.0 mm)	65.0	°C	UL 746B
RTI Str			
(1.5 mm)	65.0	°C	UL 746B
(3.0 mm)	65.0	°C	UL 746B
Electrical			
Volume Resistivity	>1.0E+13	ohm*m	IEC 62631-3-1
- Conditioned	>1.0E+10	ohm*m	IEC 62631-3-1
Surface Resistivity	>1.0E+15	ohm	IEC 60093
- Conditioned	>1.0E+12	ohm	IEC 60093
Flammable			
Burning Rate			
(2.00 mm)	38	mm/min	ISO 3795
(2.00 mm)	38	mm/min	FMVSS 302
Glow Wire Flammability Index			
(1.5 mm)	600	°C	IEC 60695-2-12
(3.0 mm)	600	°C	IEC 60695-2-12
Additional Information			
Water Absorption 23C/50RH	2	%	ISO 62
UL Information			
Flammability Classification			
(1.5 mm)	HB		IEC 60695-11-10, -20
(3.0 mm)	HB		IEC 60695-11-10, -20
UL File Number	E86615		

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	270 to 290	°C
Mold Temperature	60 to 100	°C