

Technical Data Sheet

Schulamid SAM 66 MV HI TST TOL BLK968001

Polyamide 66

Product Description

Higher impact Polyamide 66 with recycled material

Processing Method Injection Molding**Attribute** Low Temperature Impact Resistance; Medium Viscosity; Oil Resistant; Ultra High Impact Resistance; Ultra High Toughness

Typical Properties	Nominal Value	Units	Test Method
Physical			
Density, (Method A)	1.06	g/cm ³	ISO 1183
Mechanical			
Tensile Stress at Yield			
(Type 1A, 50 mm/min)	42.0	MPa	ISO 527-2
(Type 1A, 50 mm/min) - Conditioned	28.0	MPa	ISO 527-2
Tensile Strain at Yield			
(Type 1A, 50 mm/min)	10	%	ISO 527-2
(Type 1A, 50 mm/min) - Conditioned	30	%	ISO 527-2
Tensile Modulus			
(1 mm/min, Type 1A)	1650	MPa	ISO 527-1
(1 mm/min, Type 1A) - Conditioned	600	MPa	ISO 527-1
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	35	kJ/m ²	ISO 179
(-30 °C, Type 1, Edgewise, Notch A)	20	kJ/m ²	ISO 179
(23 °C, Type 1, Edgewise, Notch A) - Conditioned	No Break		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)	136	°C	ISO 306
(A (10N), 50 °C/h)	230	°C	ISO 306
Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)	82.0	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	50.0	°C	ISO 75-2/A
Flammable			
Burning Rate	<100	mm/min	ISO 3795
Additional Information			
Water Absorption 23C/50RH	2.1	%	ISO 62