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/cm³	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/m²	ISO 179
(-30 °C, Type 1, Edgewise, Notch A)	20	kJ/m²	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