Technical Data Sheet

Schulablend M/MW NC100 SF K2083 NAT

Acrylonitrile Styrene Acrylate + PA

Product Description

Nanocomposite based on ASA/PA 6-blend with increased dimensional stability, high flow, UV stabilized

Processing Method	Injection Molding
Resin ID	ASA+PA

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Volume Flow Rate, (250 °C/5.0 kg)	20	cm³/10 min	ISO 1133
Density, (Method A)	1.17	g/cm³	ISO 1183
Mechanical			
Flexural Strain at Flexural Strength	5.1	%	ISO 178
Tensile Stress at Yield, (Type 1A, 50 mm/min)	50.5	MPa	ISO 527-2
Nominal Tensile Strain at Break, (50 mm/min, Type 1A)	25	%	ISO 527-2
Flexural Modulus, (2.0 mm/min)	3000	MPa	ISO 178
Tensile Strain at Yield, (Type 1A, 50 mm/min)	2.8	%	ISO 527-2
Tensile Stress at Break, (Type 1A, 50 mm/min)	48.0	MPa	ISO 527-2
Tensile Modulus, (1 mm/min, Type 1A)	3240	MPa	ISO 527-1
Flexural Stress, (2.0 mm/min)	75.6	MPa	ISO 178
Impact			
Charpy Impact Strength - Notched, (23 °C, Type 1, Edgewise, Notch A)	10	kJ/m²	ISO 179
Charpy Impact Strength - Unnotched, (23 °C, Type 1, Edgewise)	38	kJ/m²	ISO 179
Thermal			
Vicat Softening Temperature, (B (50N), 50 °C/h)	120	°C	ISO 306
Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)	106	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	70.0	°C	ISO 75-2/A
Flammable			
Burning Rate, (2.00 mm)	<60	mm/min	ISO 3795

Injection Parameters	Nominal Value	Units
Drying Time	4	hr
Drying Temperature	80	°C
Processing (Melt) Temp	230 to 270	°C
Mold Temperature	40 to 80	°C