

Technical Data Sheet

Schulablend (ASA/PA) M/MW NC 100 SF K2083

Acrylonitrile Styrene Acrylate + PA

LyondellBasell Industries

Engineering Plastics

Product Description

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

General

Processing Method	• Injection Molding
Resin ID (ISO 1043)	• ASA+PA

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.17 g/cm ³	1.17 g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (250°C/5.0 Kg)	20 cm ³ /10min	20 cm ³ /10min	ISO 1133
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	470000 psi	3240 MPa	ISO 527-1/1A/1
Tensile Stress			ISO 527-2/1A/50
Yield	7320 psi	50.5 MPa	
Break	6960 psi	48.0 MPa	
Tensile Strain (Yield)	2.8 %	2.8 %	ISO 527-2/1A/50
Nominal Tensile Strain at Break	25 %	25 %	ISO 527-2/1A/50
Flexural Modulus ¹	435000 psi	3000 MPa	ISO 178
Flexural Stress ¹	11000 psi	75.6 MPa	ISO 178
Flexural Strain at Flexural Strength	5.1 %	5.1 %	ISO 178
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	4.8 ft·lb/in ²	10 kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
73°F (23°C)	18 ft·lb/in ²	38 kJ/m ²	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			
66 Psi (0.45 Mpa), Unannealed	223 °F	106 °C	ISO 75-2/Bf
264 Psi (1.8 Mpa), Unannealed	158 °F	70.0 °C	ISO 75-2/Af
Vicat Softening Temperature	248 °F	120 °C	ISO 306/B50
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Burning Rate (0.0787 In (2.00 Mm))	< 2.4 in/min	< 60 mm/min	ISO 3795

Additional Information

The tradename "Schulablend" may be abbreviated "SBL" in documents or on labels.

- 1.) Not for use in food contact applications
- 2.) Not for use in medical or pharmaceutical applications

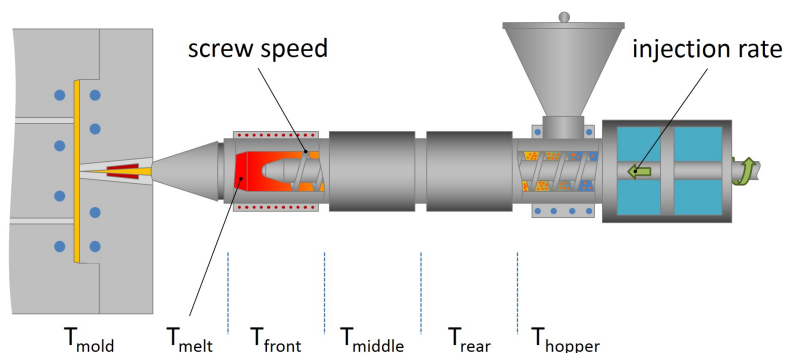
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Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	176 °F	80 °C
Drying Time	4.0 hr	4.0 hr
Processing (Melt) Temp	446 to 518 °F	230 to 270 °C
Mold Temperature	104 to 176 °F	40 to 80 °C

Notes

¹ 0.079 in/min (2.0 mm/min)

Notes

These are typical property values not to be construed as specification limits.