

Technical Data Sheet

Schulablend SBL-U-M/MW NC100 K2083-3411



Acrylonitrile Styrene Acrylate + PA

Product Description

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

Regulatory Status

For regulatory compliance information, see SBL-U-M/MW NC100 K2083-3411 SC BLK [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	Africa-Middle East; Asia-Pacific; Europe; North America
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	cm ³ /10 min	ISO 1133
Density, (Method A)	1.17	g/cm ³	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/m ²	ISO 179
Charpy Impact Strength - Unnotched, (23 °C, Type 1, Edgewise)	38	kJ/m ²	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

Notes

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

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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