

Technical Data Sheet

Schulablend M/MK NC800 UV NAT



Acrylonitrile Butadiene Styrene + PA

Product Description

Schulablend M/MK NC800 UV NAT is a Acrylonitrile Butadiene Styrene + PA material and is typically used in Injection Molding applications. Features include: Chemical Resistant, High Impact Resistance, and Good Dimensional Stability.

Regulatory Status

For regulatory compliance information, see *Schulablend* M/MK NC800 UV NAT [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	Africa-Middle East; Asia-Pacific; Europe; Latin America; North America
Processing Method	Injection Molding
Attribute	Good Chemical Resistance; Good Dimensional Stability; High Impact Resistance
Resin ID	ABS-PA

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Volume Flow Rate, (250 °C/5.0 kg)	11	cm ³ /10 min	ISO 1133
Density, (Method A)	1.08	g/cm ³	ISO 1183
Mechanical			
Tensile Stress at Yield			
(Type 1A, 50 mm/min)	39.0	MPa	ISO 527-2
(Type 1A, 50 mm/min) - Conditioned	27.0	MPa	ISO 527-2
Tensile Strain at Yield			
(Type 1A, 50 mm/min)	3.4	%	ISO 527-2
(Type 1A, 50 mm/min) - Conditioned	21	%	ISO 527-2
Tensile Modulus			
(1 mm/min, Type 1A)	1700	MPa	ISO 527-1
(1 mm/min, Type 1A) - Conditioned	900	MPa	ISO 527-1
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	80	kJ/m ²	ISO 179
(-30 °C, Type 1, Edgewise, Notch A)	22	kJ/m ²	ISO 179
(23 °C, Type 1, Edgewise, Notch A) - Conditioned	91	kJ/m ²	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
Hardness			
Ball Indentation Hardness, (H 358/30)	85.0	MPa	ISO 2039-1
Thermal			

Vicat Softening Temperature		
(B (50N), 50 °C/h)	120 °C	ISO 306
(A (10N), 50 °C/h)	204 °C	ISO 306
Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)	87.0 °C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	66.0 °C	ISO 75-2/A
Flammable		
Glow Wire Flammability Index		
(1.5 mm)	650 °C	IEC 60695-2-12
(3.0 mm)	650 °C	IEC 60695-2-12
UL Information		
Flammability Classification		
(1.5 mm)	HB	IEC 60695-11-10, -20
(3.0 mm)	HB	IEC 60695-11-10, -20
UL File Number	E86615	

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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