

Technical Data Sheet

# Schulablend (ABS/PA) M/MK NC 800

Acrylonitrile Butadiene Styrene + PA  
 LyondellBasell Industries  
 Engineering Plastics

**Product Description**

Nanocomposite based on a ABS/PA-Blend for high dimensional stability

**General**

Features	• Good Dimensional Stability
UL File Number	• E86615
Processing Method	• Injection Molding

**Physical**

	Dry	Conditioned	Unit	Test Method
Density	1.14	--	g/cm <sup>3</sup>	ISO 1183/A
Melt Volume-Flow Rate (MVR) (250°C/5.0 Kg)	4.0	--	cm <sup>3</sup> /10min	ISO 1133

**Mechanical**

	Dry	Conditioned	Unit	Test Method
Tensile Modulus	348000 (2400)	181000 (1250)	psi (MPa)	ISO 527-1/1A/1
Tensile Stress (Yield)	5660 (39.0)	4060 (28.0)	psi (MPa)	ISO 527-2/1A/50
Tensile Strain (Yield)	3.0	14	%	ISO 527-2/1A/50

**Impact**

	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-22°F (-30°C)	7.1 (15)	--	ft·lb/in <sup>2</sup> (kJ/m <sup>2</sup> )	
73°F (23°C)	14 (30)	54 (110)	ft·lb/in <sup>2</sup> (kJ/m <sup>2</sup> )	
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°F (-30°C)	No Break	--		
73°F (23°C)	No Break	No Break		

**Hardness**

	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness (H 358/30)	12300 (85.0)	--	psi (MPa)	ISO 2039-1

**Thermal**

	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				
66 Psi (0.45 Mpa), Unannealed	207 (97.0)	--	°F (°C)	ISO 75-2/Bf
264 Psi (1.8 Mpa), Unannealed	171 (77.0)	--	°F (°C)	ISO 75-2/Af
Vicat Softening Temperature				
--	241 (116)	--	°F (°C)	ISO 306/B50
--	381 (194)	--	°F (°C)	ISO 306/A50

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Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate (0.0787 In (2.00 Mm))	1.1 (27)	--	in/min (mm/min)	ISO 3795
Flammability Classification				IEC 60695-11-10, -20
0.06 In (1.5 Mm)	HB	--		
0.12 In (3.0 Mm)	HB	--		
Glow Wire Flammability Index				IEC 60695-2-12
0.06 In (1.5 Mm)	1200 (650)	--	°F (°C)	
0.12 In (3.0 Mm)	1200 (650)	--	°F (°C)	
Glow Wire Ignition Temperature				IEC 60695-2-13
0.06 In (1.5 Mm)	1250 (675)	--	°F (°C)	
0.12 In (3.0 Mm)	1250 (675)	--	°F (°C)	

### 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

### Notes

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