

Technical Data Sheet

Schulablend (ASA/PA) M/MW NC 100

Acrylonitrile Styrene Acrylate + PA
LyondellBasell Industries
Engineering Plastics

Product Description

Nanocomposite based on ASA/PA-blend for high dimensional stability

General

Features	• Good Dimensional Stability
Processing Method	• Injection Molding

Physical	Dry	Conditioned	Unit	Test Method
Density	1.18	--	g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (250°C/5.0 Kg)	6.0	--	cm ³ /10min	ISO 1133
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	450000 (3100)	276000 (1900)	psi (MPa)	ISO 527-1/1A/1
Tensile Stress (Yield)	7400 (51.0)	4930 (34.0)	psi (MPa)	ISO 527-2/1A/50
Tensile Strain (Yield)	3.1	4.7	%	ISO 527-2/1A/50
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-22°F (-30°C)	1.9 (4.0)	--	ft·lb/in ² (kJ/m ²)	
73°F (23°C)	4.8 (10)	9.0 (19)	ft·lb/in ² (kJ/m ²)	
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°F (-30°C)	36 (75)	--	ft·lb/in ² (kJ/m ²)	
73°F (23°C)	No Break	No Break		
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness (H 358/10)	14600 (101)	--	psi (MPa)	ISO 2039-1
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				
66 Psi (0.45 Mpa), Unannealed	205 (96.0)	--	°F (°C)	ISO 75-2/Bf
264 Psi (1.8 Mpa), Unannealed	172 (78.0)	--	°F (°C)	ISO 75-2/Af
Vicat Softening Temperature				
--	230 (110)	--	°F (°C)	ISO 306/B50
--	363 (184)	--	°F (°C)	ISO 306/A50

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Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate (0.0787 In (2.00 Mm))	1.2 (30)	--	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)	1250 (675)	--	°F (°C)	
0.12 In (3.0 Mm)	1250 (675)	--	°F (°C)	
Glow Wire Ignition Temperature				IEC 60695-2-13
0.06 In (1.5 Mm)	1290 (700)	--	°F (°C)	
0.12 In (3.0 Mm)	1290 (700)	--	°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.