

Technical Data Sheet



Schuladur A NV 12 SHI

Polybutylene Terephthalate
LyondellBasell Industries
Engineering Plastics

Product Description

Low viscosity non-reinforced PBT compound providing high impact strength

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Good Flow • Impact Modified		
Processing Method	• Injection Molding		
Resin ID (ISO 1043)	• PBT		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.25 g/cm ³	1.25 g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (250°C/2.16 kg)	25 cm ³ /10min	25 cm ³ /10min	ISO 1133
Water Absorption Equilibrium, 73°F (23°C), 50% RH	0.40 %	0.40 %	ISO 62
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	290000 psi	2000 MPa	ISO 527-1/1A/1
Tensile Stress (Yield)	6820 psi	47.0 MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	5.0 %	5.0 %	ISO 527-2/1A/50
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength -22°F (-30°C) 73°F (23°C)	3.8 ft·lb/in ² 7.1 ft·lb/in ²	8.0 kJ/m ² 15 kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength -22°F (-30°C) 73°F (23°C)	No Break No Break	No Break No Break	ISO 179/1eU
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load 66 psi (0.45 MPa), Unannealed 264 psi (1.8 MPa), Unannealed	280 °F 126 °F	138 °C 52.0 °C	ISO 75-2/Bf ISO 75-2/Af
Vicat Softening Temperature -- --	320 °F 421 °F	160 °C 216 °C	ISO 306/B50 ISO 306/A50
Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
Surface Resistivity	> 1.0E+15 ohms	> 1.0E+15 ohms	IEC 60093
Volume Resistivity	> 1.0E+13 ohms·m	> 1.0E+13 ohms·m	IEC 62631-3-1
Comparative Tracking Index	600 V	600 V	IEC 60112
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Burning Rate 0.0787 in (2.00 mm) 0.0787 in (2.00 mm)	< 3.9 in/min < 3.9 in/min	< 100 mm/min < 100 mm/min	ISO 3795 FMVSS 302
Flammability Classification 0.06 in (1.5 mm) 0.12 in (3.0 mm)	HB HB	HB HB	IEC 60695-11-10, -20
Glow Wire Flammability Index 0.06 in (1.5 mm) 0.12 in (3.0 mm)	1200 °F 1200 °F	650 °C 650 °C	IEC 60695-2-12

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Additional Information

- 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	212 °F	100 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Suggested Max Moisture	0.05 %	0.05 %
Processing (Melt) Temp	464 to 482 °F	240 to 250 °C
Mold Temperature	158 to 194 °F	70 to 90 °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.

Product Storage and Handling

- Product should be stored in dry conditions at temperatures below 50°C and protected from UV-light
- Improper storage may bring damage to the packaging and can negatively affects on the quality of this product
- Keep material completely dry for good processing

Company Information

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

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