

Technical Data Sheet

SCHULADUR[®] A NV 12

Polybutylene Terephthalate
Engineering Plastics

Product Description

Low viscosity non-reinforced PBT compound

General

Features	• Good Flow
UL File Number	• E86615
Processing Method	• Injection Molding
Resin ID (ISO 1043)	• PBT

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.31 g/cm ³	1.31 g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (250°C/2.16 kg)	55 cm ³ /10min	55 cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	2.0 %	2.0 %	
Flow	1.6 %	1.6 %	
Water Absorption			ISO 62
Equilibrium, 73°F (23°C), 50% RH	0.50 %	0.50 %	

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	377000 psi	2600 MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	7980 psi	55.0 MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	4.0 %	4.0 %	ISO 527-2/1A/50

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F (-30°C)	1.9 ft·lb/in ²	4.0 kJ/m ²	
73°F (23°C)	2.4 ft·lb/in ²	5.0 kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
73°F (23°C)	No Break	No Break	

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temperature			
66 psi (0.45 MPa), Unannealed	313 °F	156 °C	ISO 75-2/Bf
264 psi (1.8 MPa), Unannealed	136 °F	58.0 °C	ISO 75-2/Af
Vicat Softening Temperature	351 °F	177 °C	ISO 306/B50

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)	< 3.9 in/min	< 100 mm/min	ISO 3795
0.0787 in (2.00 mm)	< 3.9 in/min	< 100 mm/min	FMVSS 302
Flammability Classification			IEC 60695-11-10, -20
0.06 in (1.5 mm)	HB	HB	
0.12 in (3.0 mm)	HB	HB	
Glow Wire Flammability Index			IEC 60695-2-12
0.06 in (1.5 mm)	1380 °F	750 °C	
0.12 in (3.0 mm)	1380 °F	750 °C	

Technical Data Sheet

SCHULADUR[®] A NV 12

Polybutylene Terephthalate
Engineering Plastics

Additional Information

1.) Not for use in medical or pharmaceutical applications

Technical Data Sheet

SCHULADUR[®] A NV 12

Polybutylene Terephthalate
Engineering Plastics



Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	248 °F	120 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Suggested Max Moisture	0.05 %	0.05 %
Suggested Max Regrind	20 %	20 %
Processing (Melt) Temp	482 to 500 °F	250 to 260 °C
Mold Temperature	158 to 194 °F	70 to 90 °C

Notes

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