

## Technical Data Sheet

**Schuladur A GF15 HI NAT**

Polybutylene Terephthalate

**Product Description**

15% glass fibre reinforced PBT compound providing high impact strength

<b>Processing Method</b>	Injection Molding
<b>Attribute</b>	Impact Modified
<b>Filler/Reinforcement</b>	Glass Fiber, 15%
<b>Resin ID</b>	PBT-GF

<b>Typical Properties</b>	<b>Nominal Value</b>	<b>Units</b>	<b>Test Method</b>
<b>Physical</b>			
Melt Volume Flow Rate, (250 °C/2.16 kg)	15	cm <sup>3</sup> /10 min	ISO 1133
Density, (Method A)	1.37	g/cm <sup>3</sup>	ISO 1183
<b>Mechanical</b>			
Tensile Strain at Break, (Type 1A, 5 mm/min)	3.8	%	ISO 527-2
Tensile Stress at Break, (Type 1A, 5 mm/min)	92.0	MPa	ISO 527-2
Tensile Modulus, (1 mm/min, Type 1A)	5200	MPa	ISO 527-1
<b>Impact</b>			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	11	kJ/m <sup>2</sup>	ISO 179
(-30 °C, Type 1, Edgewise, Notch A)	6.0	kJ/m <sup>2</sup>	ISO 179
Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	61	kJ/m <sup>2</sup>	ISO 179
(-30 °C, Type 1, Edgewise)	33	kJ/m <sup>2</sup>	ISO 179
<b>Hardness</b>			
Ball Pressure Test, (200 °C)	Pass		IEC 60695-10-2
<b>Thermal</b>			
Vicat Softening Temperature			
(B (50N), 50 °C/h)	197	°C	ISO 306
(A (10N), 50 °C/h)	219	°C	ISO 306
Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)	217	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	190	°C	ISO 75-2/A
<b>Electrical</b>			
Volume Resistivity	>1.0E+13	ohm*m	IEC 62631-3-1
Comparative Tracking Index (CTI)	375	V	IEC 60112
Surface Resistivity	>1.0E+15	ohm	IEC 60093

**Flammable**

<b>Burning Rate</b>			
(2.00 mm)	35	mm/min	FMVSS 302
(2.00 mm)	35	mm/min	ISO 3795
<b>Glow Wire Flammability Index</b>			
(1.5 mm)	725	°C	IEC 60695-2-12
(3.0 mm)	725	°C	IEC 60695-2-12
<b>Glow Wire Ignition Temperature</b>			
(1.5 mm)	750	°C	IEC 60695-2-13
(3.0 mm)	750	°C	IEC 60695-2-13
Oxygen Index	19	%	ISO 4589-2

**Additional Information**

Water Absorption 23C/50RH	0.3	%	ISO 62
---------------------------	-----	---	--------

**UL Information**

<b>Flammability Classification</b>			
(1.5 mm)	HB		IEC 60695-11-10, -20
(3.0 mm)	HB		IEC 60695-11-10, -20

<b>Injection Parameters</b>	<b>Nominal Value</b>	<b>Units</b>
Drying Time	2.0 to 4.0	hr
Drying Temperature	100	°C
Suggested Max Moisture	0.05	%
Processing (Melt) Temp	240 to 250	°C
Mold Temperature	70 to 90	°C