

## Technical Data Sheet

**Schulamid COMTUF 607 BBLK**

Polyamide 66

**Product Description**

Higher impact Polyamide 66 - standard grade

**Processing Method** Injection Molding**Attribute** High Impact Resistance; Low Temperature Toughness; Medium Viscosity; Oil Resistant**Resin ID** PA66

<b>Typical Properties</b>	<b>Nominal Value</b>	<b>Units</b>	<b>Test Method</b>
<b>Physical</b>			
Density, (Method A)	1.09	g/cm <sup>3</sup>	ISO 1183
<b>Mechanical</b>			
Tensile Stress at Yield			
(Type 1A, 50 mm/min)	65.0	MPa	ISO 527-2
(Type 1A, 50 mm/min) - Conditioned	40.0	MPa	ISO 527-2
Tensile Strain at Yield			
(Type 1A, 50 mm/min)	5.0	%	ISO 527-2
(Type 1A, 50 mm/min) - Conditioned	25	%	ISO 527-2
Tensile Modulus			
(1 mm/min, Type 1A)	2500	MPa	ISO 527-1
(1 mm/min, Type 1A) - Conditioned	1000	MPa	ISO 527-1
<b>Impact</b>			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	20	kJ/m <sup>2</sup>	ISO 179
(-30 °C, Type 1, Edgewise, Notch A)	14	kJ/m <sup>2</sup>	ISO 179
(23 °C, Type 1, Edgewise, Notch A) - Conditioned	75	kJ/m <sup>2</sup>	ISO 179
(-30 °C, Type 1, Edgewise, Notch A) - Conditioned	16	kJ/m <sup>2</sup>	ISO 179
Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	No Break		ISO 179
(-30 °C, Type 1, Edgewise)	No Break		ISO 179
(23 °C, Type 1, Edgewise) - Conditioned	No Break		ISO 179
(-30 °C, Type 1, Edgewise) - Conditioned	No Break		ISO 179
<b>Hardness</b>			
Ball Indentation Hardness			
(H 358/30)	110	MPa	ISO 2039-1
(H 358/30) - Conditioned	60.0	MPa	ISO 2039-1
Ball Pressure Test, (60 °C)	Pass		IEC 60695-10-2

**Thermal**

Vicat Softening Temperature			
(B (50N), 50 °C/h)	215	°C	ISO 306
(A (10N), 50 °C/h)	230	°C	ISO 306
Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)	170	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	60.0	°C	ISO 75-2/A

**Electrical**

Volume Resistivity	>1.0E+13	ohm*m	IEC 62631-3-1
- Conditioned	>1.0E+10	ohm*m	IEC 62631-3-1
Comparative Tracking Index (CTI)	600	V	IEC 60112
Surface Resistivity	>1.0E+15	ohm	IEC 60093
- Conditioned	>1.0E+12	ohm	IEC 60093

**Flammable**

Burning Rate			
(2.00 mm)	30	mm/min	FMVSS 302
(2.00 mm)	30	mm/min	ISO 3795
Glow Wire Flammability Index			
(1.5 mm)	600	°C	IEC 60695-2-12
(3.0 mm)	600	°C	IEC 60695-2-12

**Additional Information**

Water Absorption 23C/50RH	2.1	%	ISO 62
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**UL Information**

Flammability Classification			
(0.75 mm)	HB		IEC 60695-11-10, -20
(1.5 mm)	HB		IEC 60695-11-10, -20
(3.0 mm)	HB		IEC 60695-11-10, -20

**Injection Parameters**

	Nominal Value	Units
Drying Time	3.0 to 4.0	hr
Drying Temperature	80	°C
Suggested Max Moisture	0.040 to 0.10	%
Processing (Melt) Temp	270 to 290	°C
Mold Temperature	60 to 100	°C