

## Technical Data Sheet

**Schulatec PP EVC 01 BLK**

Polypropylene, Specialty Products

**Product Description**

**Schulatec PP EVC 01 BLACK EXP** is an experimental PP compound with special rubber modification for extruded EV battery cooling tubes.

*This grade is not intended for medical, pharmaceutical, food and drinking water applications.*

<b>Processing Method</b>	Extrusion
<b>Attribute</b>	Impact Modified; Water/Glycol Resistance
<b>Appearance</b>	Black
<b>Application</b>	Automotive Applications

Typical Properties	Nominal Value	Units	Test Method
<b>Physical</b>			
Melt Volume Flow Rate			
(230 °C/2.16 kg)	4.0	cm <sup>3</sup> /10 min	ISO 1133
(230 °C/5.0 kg)	20	cm <sup>3</sup> /10 min	ISO 1133
Density	0.91	g/cm <sup>3</sup>	ISO 1183-1/A
<b>Mechanical</b>			
Tensile Stress at Yield, (Type 1, 23 °C, 50 mm/min)	18	MPa	ISO 527-2
Nominal Tensile Strain at Break, (23 °C)	>400	%	ISO 527-2
Flexural Modulus, (23 °C)	1100	MPa	ISO 178
Tensile Strain at Yield, (Type 1A, 23 °C, 50 mm/min)	15	%	ISO 527-2
Tensile Modulus, (23 °C)	1000	MPa	ISO 527-1
Flexural Stress, (23 °C)	25	MPa	ISO 178
<b>Impact</b>			
Charpy Impact Strength - Notched			
(23 °C)	30	kJ/m <sup>2</sup>	ISO 179-1/1eA
(-40 °C)	5	kJ/m <sup>2</sup>	ISO 179-1/1eA
Charpy Impact Strength - Unnotched			
(23 °C)	No Break		ISO 179-1/1eU
(-40 °C)	No Break		ISO 179-1/1eU
<b>Thermal</b>			
Deflection Temperature Under Load			
(0.45 MPa, Unannealed)	80	°C	ISO 75-2/B
(1.80 MPa, Unannealed)	50	°C	ISO 75-2/A
<b>Flammable</b>			
Burning Rate	<100	mm/min	FMVSS 302
<b>Extrusion Parameters</b>			
Melt Temperature	210-230	°C	