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.

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

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Volume Flow Rate			
(230 °C/2.16 kg)	4.0	cm³/10 min	ISO 1133
(230 °C/5.0 kg)	20	cm³/10 min	ISO 1133
Density	0.91	g/cm³	ISO 1183-1/A
Mechanical			
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
Impact			
Charpy Impact Strength - Notched			
(23 °C)	30	kJ/m²	ISO 179-1/1eA
(-40 °C)	5	kJ/m²	ISO 179-1/1eA
Charpy Impact Strength - Unnotched			
(23 °C)	No Break		ISO 179-1/1eU
(-40 °C)	No Break		ISO 179-1/1eU
Thermal			
Deflection Temperature Under Load			
(0.45 MPa, Unannealed)	80	°C	ISO 75-2/B
(1.80 MPa, Unannealed)	50	°C	ISO 75-2/A
Flammable			
Burning Rate	<100	mm/min	FMVSS 302

Extrusion Parameters	Nominal Value	Units
Melt Temperature	210-230	°C