

SCHULADUR® PCR GF 20

Polybutylene Terephthalate + PET

A. Schulman Europe

Message:

20% glass fibre reinforced PBT/PET blend

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight		
Recycled Content	Yes		
Processing Method	Injection molding		
Resin ID (ISO 1043)	PBT+PET-GF		
Physical	Nominal Value	Unit	Test Method
Density	1.47	g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (260°C/2.16 kg)	24.0	cm ³ /10min	ISO 1133
Water Absorption (23°C, 24 hr)	0.30	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8100	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	125	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	2.5	%	ISO 527-2/1A/5
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	5.0	kJ/m ²	ISO 179/1eA
23°C	6.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	28	kJ/m ²	ISO 179/1eU
23°C	30	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	225	°C	ISO 75-2/Bf
1.8 MPa, not annealed	200	°C	ISO 75-2/Af
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+15	ohms	IEC 60093
Volume Resistivity	> 1.0E+13	ohms · cm	IEC 60093
Flammability	Nominal Value	Unit	Test Method
Flammability Classification			IEC 60695-11-10, -20
0.750 mm	HB		IEC 60695-11-10, -20
1.50 mm	HB		IEC 60695-11-10, -20
Glow Wire Flammability Index (2.00 mm)	650	°C	IEC 60695-2-12
Additional Information			

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- 1.)
Not for use in food contact applications2.)
Not for use in medical or pharmaceutical applications

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