

SCHULADUR® PCR GF 45

Polybutylene Terephthalate + PET

A. Schulman Europe

Message:

45% glass fibre reinforced PBT/PET blend

General Information			
UL YellowCard	E86615-488993		
Filler / Reinforcement	Glass fiber reinforced material, 45% filler by weight		
Recycled Content	Yes		
Processing Method	Injection molding		
Resin ID (ISO 1043)	PBT+PET-GF45		
Physical	Nominal Value	Unit	Test Method
Density	1.68	g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (260°C/2.16 kg)	11.0	cm ³ /10min	ISO 1133
Water Absorption (Equilibrium, 23°C, 50% RH)	0.25	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	15500	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	160	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	1.7	%	ISO 527-2/1A/5
Flexural Modulus ¹	16000	MPa	ISO 178
Flexural Stress ²	250	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	8.0	kJ/m ²	ISO 179/1eA
23°C	8.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	50	kJ/m ²	ISO 179/1eU
23°C	50	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	208	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	214	°C	ISO 306/A50
--	198	°C	ISO 306/B50
Flammability	Nominal Value	Unit	Test Method
Burning Rate	25	mm/min	ISO 3795
Flammability Classification			IEC 60695-11-10, -20

1.60 mm	HB		IEC 60695-11-10, -20
3.20 mm	HB		IEC 60695-11-10, -20
Glow Wire Flammability Index			IEC 60695-2-12
1.50 mm	700	°C	IEC 60695-2-12
3.00 mm	800	°C	IEC 60695-2-12
Glow Wire Ignition Temperature			IEC 60695-2-13
1.50mm, through	825	°C	IEC 60695-2-13
3.00mm, through	800	°C	IEC 60695-2-13

Additional Information

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

NOTE

1. 2.0 mm/min
2. 2.0 mm/min

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Recommended distributors for this material

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