HK:+852-69575415 China GuangDong:+13538586433 ShangHai:+18816996168

Technical Data Sheet

Schuladur PCR GF 20

Polybutylene Terephthalate + PET
LyondellBasell Industries
Engineering Plastics

Product Description
20% glass fibre reinforced PBT/PET compound based on post consumer PET. According to ISO 14021:2016 Schuladur PCR GF20 is a compound containing at least 35% (R35) of recycled material that is fully based on Post-Consumer Waste (PCW).

General	
Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight
Recycled Content	• Yes
Automotive Specifications	• GM GMW15702-019121 PBT+PET-GF20 Color: 96.8001 Black
Processing Method	• Injection Molding
Resin ID (ISO 1043)	• PBT+PET-GF

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.47 g/cm³	1.47 g/cm³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (260°c/2.16 Kg)	20 cm³/10min	20 cm³/10min	ISO 1133
Water Absorption			ISO 62
Equilibrium, 73°f (23°c), 50% Rh	0.30 %	0.30 %	
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Modulus	1.10E+6 psi	7600 MPa	ISO 527-1/1A/1
Tensile Stress (Break)	17400 psi	120 MPa	ISO 527-2/1A/5
Tensile Strain (Break)	2.5 %	2.5 %	ISO 527-2/1A/5
Impact	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-22°f (-30°c)	2.4 ft·lb/in²	5.0 kJ/m²	
73°f (23°c)	2.9 ft·lb/in²	6.0 kJ/m²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°f (-30°c)	13 ft·lb/in²	28 kJ/m²	
73°f (23°c)	14 ft·lb/in²	30 kJ/m²	
Thermal	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Deflection Temperature Under Load			
66 Psi (0.45 Mpa), Unannealed	419 °F	215 °C	ISO 75-2/Bf
264 Psi (1.8 Mpa), Unannealed	374 °F	190 °C	ISO 75-2/Af
Vicat Softening Temperature			
--	374 °F	190 °C	ISO 306/B50
--	419 °F	215 °C	ISO 306/A50
Ball Pressure Test (392°f (200°c))	Pass	Pass	IEC 60695-10-2
Electrical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Surface Resistivity	> 1.0E+15 ohms	> 1.0E+15 ohms	IEC 60093
Volume Resistivity	> 1.0E+13 ohms·m	> 1.0E+13 ohms·m	IEC 62631-3-1

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Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Burning Rate			
0.0787 In (2.00 Mm)	1.2 in/min	30 mm/min	ISO 3795
0.0787 In (2.00 Mm)	1.2 in/min	30 mm/min	FMVSS 302
Flammability Classification			IEC 60695-11-10, -20
0.030 In (0.75 Mm)	HB	HB	
0.06 In (1.5 Mm)	HB	HB	
0.12 In (3.0 Mm)	HB	HB	
Glow Wire Flammability Index			IEC 60695-2-12
0.08 In (2.0 Mm)	1200 °F	650 °C	

Additional Information

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

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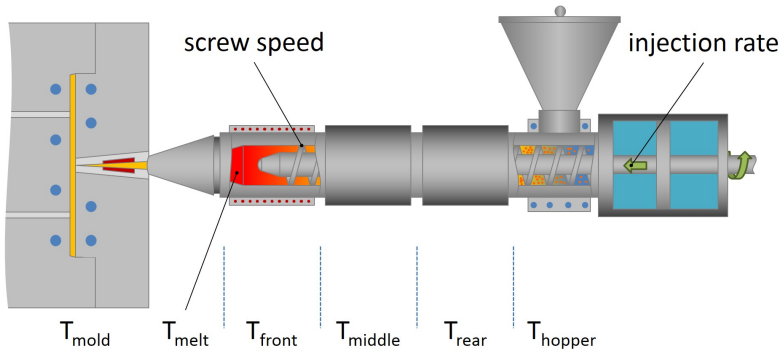

Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	248 °F	120 °C
Drying Time	4.0 to 6.0 hr	4.0 to 6.0 hr
Suggested Max Moisture	0.02 %	0.02 %
Processing (Melt) Temp	500 to 536 °F	260 to 280 °C
Mold Temperature	176 to 230 °F	80 to 110 °C

Notes

These are typical property values not to be construed as specification limits.