

PALDUR® R 15 GF 20

Polybutylene Terephthalate

pal plast GmbH

Message:

PALDUR® R 15 GF 20 is a polybutene terephthalate (PBT) product, which contains a 20% glass fiber reinforced material. It can be processed by injection molding and is available in Europe. PALDUR® R 15 GF 20 applications include electrical/electronic applications, wire and cable, and automotive industries.

Features include:

flame retardant/rated flame

High stiffness

high strength

chemical resistance

Wear-resistant

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight		
Features	Rigidity, high		
	High strength		
	Good chemical resistance		
	Good wear resistance		
Uses	Electrical/Electronic Applications		
	Application in Automobile Field		
	Communication Equipment		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.45	g/cm ³	ISO 1183
Water Absorption			ISO 62
Saturated, 23°C	0.38	%	ISO 62
Equilibrium, 23°C, 50% RH	0.18	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	7100	MPa	ISO 527-2/1A/1
Tensile Stress (Break, 23°C)	115	MPa	ISO 527-2/1A/5
Tensile Strain (Break, 23°C)	3.5	%	ISO 527-2/1A/5
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	8.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	45	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	214	°C	ISO 306/B50
Melting Temperature (DSC)	225	°C	ISO 3146
Electrical	Nominal Value	Unit	Test Method

Comparative Tracking Index (Solution A)	350	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	HB		UL 94
Additional Information			

Tensile Modulus, ISO 527, 23°C, 1 mm/min, Type A: 6700 to 7500 MPaTensile Stress at Break, ISO 527, 23°C, 5 mm/min, Type A: 110 to 120 MPaTensile Strain at Break, ISO 527, 23°C, 5 mm/min, Type A: 3 to 4 %Charpy Unnotched Impact, ISO 179, Type 1, Edgewise, 23°C: 40 to 50 kJ/m²Charpy Notched Impact, ISO 179, Type 1, Edgewise, Notch A, 23°C: 7 to 9 kJ/m²Vicat Softening Temperature, ISO 306, B50 (50°C/h 50N): 212 to 215 °CDensity, ISO 1183: 1.44 to 1.46 g/cm³Water Absorption, ISO 62, 23°C, Saturation: 0.35 to 0.4 %Moisture Absorption, ISO 62, 23°C, 50% RH: 0.15 to 0.2 %

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