

PALPROP® R H 15 GF 20

Polypropylene Homopolymer
pal plast GmbH

Message:

PALPROP® R H 15 GF 20 is a polypropylene homopolymer (PP Homopoly) product, and the filler is 20% glass fiber reinforced material. It can be processed by injection molding and is available in Europe. PALPROP® R H 15 GF 20 applications include the housing and automotive industries. Features include:

- Homopolymer
- anti-warping
- Good stiffness
- Impact resistance

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight		
Features	Low warpage		
	Rigid, good		
	Homopolymer		
	Impact resistance, good		
Uses	Application in Automobile Field		
	Shell		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.05	g/cm³	ISO 1183
Water Absorption (Saturation, 23°C)	1.9	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	4250	MPa	ISO 527-2/1A/1
Tensile Stress (Break, 23°C)	72.5	MPa	ISO 527-2/1A/5
Tensile Strain (Break, 23°C)	4.0	%	ISO 527-2/1A/5
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	7.5	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	38	kJ/m²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	123	°C	ISO 306/B50
Melting Temperature (DSC)	165	°C	ISO 3146
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index (Solution A)	600	V	IEC 60112
Additional Information			

Tensile Modulus, ISO 527, 23°C, 1 mm/min, Type A: 4000 to 4500 MPaTensile Stress at Break, ISO 527, 23°C, 5 mm/min, Type A: 70 to 75 MPaTensile Strain at Break, ISO 527, 23°C, 5 mm/min, Type A: 3 to 5 %Charpy Unnotched Impact, ISO 179, Type 1, Edgewise, 23°C: 35 to 40 kJ/m²Charpy Notched Impact, ISO 179, Type 1, Edgewise, Notch A, 23°C: 6 to 9 kJ/m²Vicat Softening Temperature, ISO 306, B50 (50°C/h 50N): 120 to 125 °CDensity, ISO 1183: 1.04 to 1.06 g/cm³Water Absorption, ISO 62, 23°C, Saturation: 1.8 to 2 %

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