

PALMID® R 6 S GF 20

Polyamide 6

pal plast GmbH

Message:

PALMID®R 6 S GF 20 is a polyamide 6 (nylon 6) product, which contains a 20% glass fiber reinforced material. It can be processed by injection molding and is available in Europe. Typical application areas are: housing.

Features include:

flame retardant/rated flame

High stiffness

Good dimensional stability

chemical resistance

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight		
Features	Good dimensional stability		
	Rigidity, high		
	Good chemical resistance		
Uses	Shell		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.27	g/cm ³	ISO 1183
Water Absorption			ISO 62
Saturated, 23°C	7.0	%	ISO 62
Equilibrium, 23°C, 50% RH	2.3	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	6800	MPa	ISO 527-2/1A/1
Tensile Stress (Break, 23°C)	145	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)	8.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	65	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	213	°C	ISO 306/B50
Melting Temperature (DSC)	220	°C	ISO 3146
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index (Solution A)	550	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: 6600 to 7000 MPaTensile Stress at Break, ISO 527, 23°C, 5 mm/min, Type A: 140 to 150 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: 60 to 70 kJ/m²Charpy Notched Impact, ISO 179, Type 1, Edgewise, Notch A, 23°C: 6 to 10 kJ/m²Vicat Softening Temperature, ISO 306, B50 (50°C/h 50N): 210 to 215 °CDensity, ISO 1183: 1.26 to 1.28 g/cm³Water Absorption, ISO 62, 23°C, Saturation: 6.8 to 7.2 %Moisture Absorption, ISO 62, 23°C, 50% RH: 2.2 to 2.4 %

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