

PALMID® R 6 S GF 30

Polyamide 6

pal plast GmbH

Message:

PALMID®R 6 S GF 30 is a polyamide 6 (nylon 6) product, which contains a 30% glass fiber reinforced material. It can be processed by injection molding and is available in Europe.

Features include:

flame retardant/rated flame

High stiffness

Good dimensional stability

chemical resistance

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Features	Good dimensional stability		
	Rigidity, high		
	Good chemical resistance		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.36	g/cm ³	ISO 1183
Water Absorption			ISO 62
Saturated, 23°C	6.4	%	ISO 62
Equilibrium, 23°C, 50% RH	2.0	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	9250	MPa	ISO 527-2/1A/1
Tensile Stress (Break, 23°C)	175	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)	14	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	85	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	218	°C	ISO 306/B50
Melting Temperature (DSC)	220	°C	ISO 3146
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index (Solution A)	575	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: 9000 to 9500 MPaTensile Stress at Break, ISO 527, 23°C, 5 mm/min, Type A: 170 to 180 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: 80 to 90 kJ/m²Charpy Notched Impact, ISO 179, Type 1, Edgewise, Notch A, 23°C: 12 to 15 kJ/m²Vicat Softening Temperature, ISO 306, B50 (50°C/h 50N): 215 to 220 °CDensity, ISO 1183: 1.35 to 1.37 g/cm³Water Absorption, ISO 62, 23°C, Saturation: 6.2 to 6.5 %Moisture Absorption, ISO 62, 23°C, 50% RH: 1.9 to 2.1 %

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