

PALMID® R 6 S GF 10 MV 20

Polyamide 6

pal plast GmbH

Message:

PALMID®R 6 S GF 10 MV 20 is a polyamide 6 (nylon 6) product, which contains 10% glass fiber reinforced materials and 20% mineral fillers. It can be processed by injection molding and is available in Europe. Typical application areas are: housing.

Features include:

flame retardant/rated flame

anti-warping

Good dimensional stability

Good stiffness

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 10% filler by weight		
	Mineral filler, 20% filler by weight		
Features	Good dimensional stability		
	Low warpage		
	Rigid, good		
Uses	Shell		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.35	g/cm³	ISO 1183
Water Absorption			ISO 62
Saturated, 23°C	6.2	%	ISO 62
Equilibrium, 23°C, 50% RH	1.7	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	6050	MPa	ISO 527-2/1A/1
Tensile Stress (Break, 23°C)	110	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)	5.0	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	35	kJ/m²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	207	°C	ISO 306/B50
Melting Temperature (DSC)	220	°C	ISO 3146
Flammability	Nominal Value		Test Method
Flame Rating (1.60 mm)	HB		UL 94
Additional Information			

Tensile Modulus, ISO 527, 23°C, 1 mm/min, Type A: 5800 to 6300 MPaTensile Stress at Break, ISO 527, 23°C, 5 mm/min, Type A: 100 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: 30 to 40 kJ/m²Charpy Notched Impact, ISO 179, Type 1, Edgewise, Notch A, 23°C: 4 to 6 kJ/m²Vicat Softening Temperature, ISO 306, B50 (50°C/h 50N): 205 to 209 °CDensity, ISO 1183: 1.34 to 1.36 g/cm³Water Absorption, ISO 62, 23°C, Saturation: 6.1 to 6.3 %Moisture Absorption, ISO 62, 23°C, 50% RH: 1.6 to 1.8 %

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