

PALMID® R 6 S

Polyamide 6
pal plast GmbH

Message:

PALMID®R 6 S is a polyamide 6 (nylon 6) product. It can be processed by injection molding and is available in Europe. Typical application areas are: engineering/industrial accessories.

Features include:

- flame retardant/rated flame
- Rapid Prototyping Cycle
- Impact resistance
- chemical resistance
- Medium viscosity

General Information			
Features	Impact resistance, high		
	Fast molding cycle		
	Good chemical resistance		
	Medium viscosity		
Uses	Engineering accessories		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.13	g/cm³	ISO 1183
Water Absorption			ISO 62
Saturated, 23°C	8.5	%	ISO 62
Equilibrium, 23°C, 50% RH	2.9	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	3100	MPa	ISO 527-2/1A/1
Tensile Stress (Yield, 23°C)	82.5	MPa	ISO 527-2/1A/50
Tensile Strain (Yield, 23°C)	4.0	%	ISO 527-2/1A/50
Nominal Tensile Strain at Break (23°C)	25	%	ISO 527-2/1A/50
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)	No Break		ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	202	°C	ISO 306/B50
Melting Temperature (DSC)	220	°C	ISO 3146
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index (Solution A)	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	V-2		UL 94

Additional Information

Tensile Modulus, ISO 527, 23°C, 1 mm/min, Type A: 3000 to 3200 MPa Tensile Stress at Yield, ISO 527, 23°C, 50 mm/min, Type A: 80 to 85 MPa Tensile Strain at Yield, ISO 527, 23°C, 50 mm/min, Type A: 3 to 5 % Nominal Tensile Strain at Break, ISO 527, 23°C, 50 mm/min, Type A: 20 to 30 % Charpy Notched Impact, ISO 179, Type 1, Edgewise, Notch A, 23°C: 6 to 9 kJ/m² Vicat Softening Temperature, ISO 306, B50 (50°C/h 50N): 200 to 204 °C Density, ISO 1183: 1.12 to 1.14 g/cm³ Water Absorption, ISO 62, 23°C, Saturation: 8 to 9 % Moisture Absorption, ISO 62, 23°C, 50% RH: 2.8 to 3 %

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