

PALMID® R 6 S GF 15

Polyamide 6
pal plast GmbH

Message:

PALMID®R 6 S GF 15 is a polyamide 6 (nylon 6) product, which contains a 15% 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
Impact resistance
chemical resistance

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 15% filler by weight		
Features	Impact resistance, good		
	Good chemical resistance		
Uses	Shell		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.23	g/cm³	ISO 1183
Water Absorption			ISO 62
Saturated, 23°C	7.8	%	ISO 62
Equilibrium, 23°C, 50% RH	2.5	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	5550	MPa	ISO 527-2/1A/1
Tensile Stress (Break, 23°C)	128	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)	6.5	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	45	kJ/m²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	209	°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: 5300 to 5800 MPaTensile Stress at Break, ISO 527, 23°C, 5 mm/min, Type A: 125 to 130 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: 40 to 50 kJ/m²Charpy Notched Impact, ISO 179, Type 1, Edgewise, Notch A, 23°C: 5 to 8 kJ/m²Vicat Softening Temperature, ISO 306, B50 (50°C/h 50N): 207 to 210 °CDensity, ISO 1183: 1.22 to 1.24 g/cm³Water Absorption, ISO 62, 23°C, Saturation: 7.5 to 8 %Moisture Absorption, ISO 62, 23°C, 50% RH: 2.4 to 2.6 %

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection.All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519
Phone: +86 13424755533
Email: sales@su-jiao.com
No. 215, Lianhe North Road, Fengxian District, Shanghai, China

