

PALSAFE® R 05 GF 20 FR 0

Polycarbonate
pal plast GmbH

Message:

PALSAFE® R 05 GF 20 FR 0 is a polycarbonate (PC) product containing a 20% glass fiber reinforced material. It can be processed by injection molding and is available in Europe. Typical application areas are: electrical/electronic applications.

Features include:

- flame retardant/rated flame
- Flame Retardant
- High stiffness
- high strength
- high viscosity

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight		
Features	Rigidity, high		
	High strength		
	Viscosity, High		
	Flame retardancy		
Uses	Electrical/Electronic Applications		
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	0.28	%	ISO 62
Equilibrium, 23°C, 50% RH	0.14	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	6000	MPa	ISO 527-2/1A/1
Tensile Stress (Break, 23°C)	95.0	MPa	ISO 527-2/1A/5
Tensile Strain (Break, 23°C)	2.5	%	ISO 527-2/1A/5
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	148	°C	ISO 306/B50
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index (Solution A)	175	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	V-0		UL 94
Additional Information			

Tensile Modulus, ISO 527, 23°C, 1 mm/min, Type A: 5500 to 6500 MPaTensile Stress at Break, ISO 527, 23°C, 5 mm/min, Type A: 90 to 100 MPaTensile Strain at Break, ISO 527, 23°C, 5 mm/min, Type A: 2 to 3 %Vicat Softening Temperature, ISO 306, B50 (50°C/h 50N): 146 to 149 °CDensity, ISO 1183: 1.34 to 1.36 g/cm³Water Absorption, ISO 62, 23°C, Saturation: 0.25 to 0.3 %Moisture Absorption, ISO 62, 23°C, 50% RH: 0.12 to 0.15 %

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