

PALDUR® R 15 GK 20

Polybutylene Terephthalate

pal plast GmbH

Message:

PALDUR® R 15 GK 20 is a polybutene terephthalate (PBT) product containing 20% glass beads. 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

anti-warping

beautiful

General Information			
Filler / Reinforcement	Glass beads, 20% filler by weight		
Features	Low warpage		
	Excellent appearance		
Uses	Engineering accessories		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.45	g/cm ³	ISO 1183
Water Absorption			ISO 62
Saturated, 23°C	0.38	%	ISO 62
Equilibrium, 23°C, 50% RH	14	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	3500	MPa	ISO 527-2/1A/1
Tensile Stress (Break, 23°C)	50.5	MPa	ISO 527-2/1A/5
Tensile Strain (Break, 23°C)	5.0	%	ISO 527-2/1A/5
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	4.0	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	189	°C	ISO 306/B50
Melting Temperature (DSC)	225	°C	ISO 3146
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index (Solution A)	25.0	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: 3300 to 3700 MPa
Tensile Stress at Break, ISO 527, 23°C, 5 mm/min, Type A: 48 to 53 MPa
Tensile Strain at Break, ISO 527, 23°C, 5 mm/min, Type A: 4 to 6 %
Charpy Notched Impact, ISO 179, Type 1, Edgewise, Notch A, 23°C: 3 to 5 kJ/m²
Vicat Softening Temperature, ISO 306, B50 (50°C/h 50N): 187 to 190 °C
Density, ISO 1183: 1.44 to 1.46 g/cm³
Water Absorption, ISO 62, 23°C, Saturation: 0.35 to 0.4 %
Moisture Absorption, ISO 62, 23°C, 50% RH: 0.12 to 0.15 %

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