

PALDUR® R 20

Polybutylene Terephthalate

pal plast GmbH

Message:

PALDUR® R 20 is a polybutene terephthalate (PBT) product. It can be processed by injection molding and is available in Europe. PALDUR® R 20 applications include electrical/electronic applications, wire and cable, housing and automotive industries.

- Features include:
- flame retardant/rated flame
 - high viscosity
 - Rapid Prototyping Cycle
 - chemical resistance

General Information			
Features	Fast molding cycle		
	Good chemical resistance		
	Viscosity, High		
Uses	Electrical/Electronic Applications		
	Application in Automobile Field		
	Communication Equipment		
	Shell		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.30	g/cm ³	ISO 1183
Water Absorption			ISO 62
Saturated, 23°C	0.45	%	ISO 62
Equilibrium, 23°C, 50% RH	0.18	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2450	MPa	ISO 527-2/1A/1
Tensile Stress (Yield, 23°C)	52.5	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)	50	%	ISO 527-2/1A/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	3.5	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	186	°C	ISO 306/B50
Melting Temperature (DSC)	225	°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)	HB		UL 94
Additional Information			

Tensile Modulus, ISO 527, 23°C, 1 mm/min, Type A: 2300 to 2600 MPaTensile Stress at Yield, ISO 527, 23°C, 50 mm/min, Type A: 50 to 55 MPaTensile 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: >50 %Charpy Notched Impact, ISO 179, Type 1, Edgewise, Notch A, 23°C: 3 to 4 kJ/m²Vicat Softening Temperature, ISO 306, B50 (50°C/h 50N): 177 to 180 °CDensity, ISO 1183: 1.29 to 1.31 g/cm³Water Absorption, ISO 62, 23°C, Saturation: 0.4 to 0.5 %Moisture Absorption, ISO 62, 23°C, 50% RH: 0.15 to 0.2 %

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