

PALBLEND® R 45

Polycarbonate + ABS

pal plast GmbH

Message:

PALBLEND® R 45 is a polycarbonate acrylonitrile butadiene styrene (PC ABS) product. It is available in Europe. PALBLEND® R 45 applications include electrical appliances and automotive industries.

Features include:

flame retardant/rated flame

Impact resistance

General Information			
Features	Impact resistance, high		
	Electroplateable		
Uses	Electrical appliances		
	Car interior parts		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Density	1.09	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (260°C/5.0 kg)	25.0	cm ³ /10min	ISO 1133
Water Absorption			ISO 62
Saturated, 23°C	0.60	%	ISO 62
Equilibrium, 23°C, 50% RH	0.18	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2000	MPa	ISO 527-2/1A/1
Tensile Stress (Yield, 23°C)	47.5	MPa	ISO 527-2/1A/50
Tensile Strain (Yield, 23°C)	3.5	%	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)	33	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	109	°C	ISO 306/B50
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index (Solution A)	500	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	HB		UL 94
Additional Information			

Melt-Volume Flow Rate, ISO 1133, 260°C/5 kg: 20 to 30 cm³/10 minTensile Modulus, ISO 527, 23°C, 1 mm/min, Type A: 1900 to 2100 MPaTensile Stress at Yield, ISO 527, 23°C, 50 mm/min, Type A: 45 to 50 MPaTensile Strain at Yield, ISO 527, 23°C, 50 mm/min, Type A: 3 to 4 %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: 30 to 35 kJ/m²Vicat Softening Temperature, ISO 306, B50 (50°C/h 50N): 107 to 110 °CDensity, ISO 1183: 1.08 to 1.103 g/cm³Water Absorption, ISO 62, 23°C, Saturation: 0.5 to 0.7 %Moisture Absorption, ISO 62, 23°C, 50% RH: 0.15 to 0.2 %

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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

