

PALSAFE® R 20

Polycarbonate

pal plast GmbH

Message:

PALSAFE® R 20 is a polycarbonate (PC) product. It can be processed by injection molding and is available in Europe. PALSAFE® The application areas of R 20 include electrical/electronic applications and electrical appliances.

Features include:

flame retardant/rated flame

high strength

high hardness

Impact resistance

General Information			
Features	High strength		
	Impact resistance, good		
	Good liquidity		
	High hardness		
Uses	Electrical/Electronic Applications		
	Electrical appliances		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.19	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	22.0	cm ³ /10min	ISO 1133
Water Absorption			ISO 62
Saturated, 23°C	0.30	%	ISO 62
Equilibrium, 23°C, 50% RH	0.18	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2200	MPa	ISO 527-2/1A/1
Tensile Stress (Yield, 23°C)	61.0	MPa	ISO 527-2/1A/50
Tensile Strain (Yield, 23°C)	5.0	%	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 Unnotched Impact Strength (23°C)	No Break		ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	143	°C	ISO 306/B50
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index (Solution A)	275	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method

Flame Rating (1.60 mm)	V-2	UL 94
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Additional Information

Melt-Volume Flow Rate, ISO 1133, 300°C/1.2 kg: 19 to 25 cm³/10 minTensile Modulus, ISO 527, 23°C, 1 mm/min, Type A: 2100 to 2300 MPaTensile Stress at Yield, ISO 527, 23°C, 50 mm/min, Type A: 59 to 63 MPaTensile Strain at Yield, ISO 527, 23°C, 50 mm/min, Type A: 4 to 6 %Nominal Tensile Strain at Break, ISO 527, 23°C, 50 mm/min, Type A: >50 %Vicat Softening Temperature, ISO 306, B50 (50°C/h 50N): 141 to 144 °CDensity, ISO 1183: 1.18 to 1.2 g/cm³Water Absorption, ISO 62, 23°C, Saturation: 0.2 to 0.4 %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



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