

PALRAN® R S 10

Acrylonitrile Butadiene Styrene

pal plast GmbH

Message:

PALRAN® R S 10 is an acrylonitrile butadiene styrene (ABS) product. It can be processed by injection molding and is available in Europe. Typical application areas are: electrical appliances.
Features include:
flame retardant/rated flame
Impact resistance
Heat resistance

General Information			
Features	Impact resistance, good Heat resistance, medium		
Uses	Electrical appliances		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.05	g/cm ³	ISO 1183
Water Absorption (Saturation, 23°C)	0.25	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	1930	MPa	ISO 527-2/1A/1
Tensile Stress (Yield, 23°C)	42.5	MPa	ISO 527-2/1A/50
Tensile Strain (Yield, 23°C)	3.0	%	ISO 527-2/1A/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	14	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	99.5	°C	ISO 306/B50
Flammability	Nominal Value		Test Method
Flame Rating (1.60 mm)	HB		UL 94
Additional Information			

Tensile Modulus, ISO 527, 23°C, 1 mm/min, Type A: 1850 to 2000 MPa
Tensile Stress at Yield, ISO 527, 23°C, 50 mm/min, Type A: 40 to 45 MPa
Tensile Strain at Yield, ISO 527, 23°C, 50 mm/min, Type A: 2 to 4 %
Charpy Notched Impact, ISO 179, Type 1, Edgewise, Notch A, 23°C: 12 to 16 kJ/m²
Vicat Softening Temperature, ISO 306, B50 (50°C/h 50N): 98 to 101 °C
Density, ISO 1183: 1.04 to 1.06 g/cm³
Water Absorption, ISO 62, 23°C, Saturation: 0.2 to 0.3 %

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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

