

PALSTYROL® R S 12

General Purpose Polystyrene

pal plast GmbH

Message:

PALSTYROL® R S 12 is a general-purpose polystyrene product. It can be processed by injection molding and is available in Europe.

Features include:

flame retardant/rated flame

Good stiffness

Transparency

General Information			
Features	Rigid, good		
	Good liquidity		
	Definition, high		
Appearance	Clear/transparent		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.05	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (200°C/5.0 kg)	12.5	cm ³ /10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	3000	MPa	ISO 527-2/1A/1
Tensile Stress (Break, 23°C)	42.5	MPa	ISO 527-2/1A/5
Tensile Strain (Break, 23°C)	2.5	%	ISO 527-2/1A/5
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	2.5	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	16	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	82.0	°C	ISO 306/B50
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index (Solution A)	375	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, 200°C/5 kg: 10 to 15 cm³/10 min
Tensile Modulus, ISO 527, 23°C, 1 mm/min, Type A: 2900 to 3100 MPa
Tensile Stress at Break, ISO 527, 23°C, 5 mm/min, Type A: 40 to 45 MPa
Tensile Strain at Break, ISO 527, 23°C, 5 mm/min, Type A: 1.5 to 3.5 %
Charpy Unnotched Impact, ISO 179, Type 1, Edgewise, 23°C: 14 to 17 kJ/m²
Charpy Notched Impact, ISO 179, Type 1, Edgewise, Notch A, 23°C: 2 to 3 kJ/m²
Vicat Softening Temperature, ISO 306, B50 (50°C/h 50N): 80 to 84 °C
Density, ISO 1183: 1.04 to 1.06 g/cm³

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