

PALPROP® R H 20

Polypropylene Homopolymer
pal plast GmbH

Message:

PALPROP® R H 20 is a polypropylene homopolymer (PP Homopoly) product. It can be processed by injection molding and is available in Europe.
Features include:
flame retardant/rated flame
Homopolymer
Heat resistance

General Information			
Features	Homopolymer		
	Antistatic property		
	Heat resistance, high		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.905	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	20.0	cm³/10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	1430	MPa	ISO 527-2/1A/1
Tensile Stress (Yield, 23°C)	32.0	MPa	ISO 527-2/1A/50
Tensile Strain (Yield, 23°C)	7.0	%	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)	2.5	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	90	kJ/m²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	82.5	°C	ISO 306/B50
Melting Temperature (DSC)	165	°C	ISO 3146
Flammability	Nominal Value		Test Method
Flame Rating (1.60 mm)	HB		UL 94
Additional Information			

Melt-Volume Flow Rate, ISO 1133, 230°C/2.16 kg: 15 to 25 cm³/10 min
Tensile Modulus, ISO 527, 23°C, 1 mm/min, Type A: 1350 to 1500 MPa
Tensile Stress at Yield, ISO 527, 23°C, 50 mm/min, Type A: 30 to 34 MPa
Tensile Strain at Yield, ISO 527, 23°C, 50 mm/min, Type A: 6 to 8 %
Nominal Tensile Strain at Break, ISO 527, 23°C, 50 mm/min, Type A: >50 %
Charpy Unnotched Impact, ISO 179, Type 1, Edgewise, 23°C: 85 to 95 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 85 °C
Density, ISO 1183: 0.9 to 0.91 g/cm³

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