

PALFORM® R C 13

Acetal (POM) Copolymer

pal plast GmbH

Message:

PALFORM® R C 13 is a polyoxymethylene (POM) copolymer product. It is available in Europe. Typical application areas are: engineering/industrial accessories.

Features include:

flame retardant/rated flame

chemical resistance

High stiffness

Copolymer

Impact resistance

General Information			
Features	Rigidity, high Copolymer Solvent resistance Impact resistance, high Good chemical resistance alkali resistance Fuel resistance Hydrolysis resistance		
Uses	Gear		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Density	1.41	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	12.5	cm ³ /10min	ISO 1133
Water Absorption			ISO 62
Saturated, 23°C	0.80	%	ISO 62
Equilibrium, 23°C, 50% RH	0.18	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2800	MPa	ISO 527-2/1A/1
Tensile Stress (Yield, 23°C)	62.5	MPa	ISO 527-2/1A/50
Tensile Strain (Yield, 23°C)	7.5	%	ISO 527-2/1A/50
Nominal Tensile Strain at Break (23°C)	23	%	ISO 527-2/1A/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.5	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	140	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	150	°C	ISO 306/B50
Melting Temperature (DSC)	166	°C	ISO 3146

Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index (Solution A)	600	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, 190°C/2.16 kg: 11 to 14 cm³/10 min
Tensile Modulus, ISO 527, 23°C, 1 mm/min, Type A: 2700 to 2900 MPa
Tensile Stress at Yield, ISO 527, 23°C, 50 mm/min, Type A: 60 to 65 MPa
Tensile Strain at Yield, ISO 527, 23°C, 50 mm/min, Type A: 6 to 9 %
Nominal Tensile Strain at Break, ISO 527, 23°C, 50 mm/min, Type A: 20 to 25 %
Charpy Unnotched Impact, ISO 179, Type 1, Edgewise, 23°C: 120 to 150 kJ/m²
Charpy Notched Impact, ISO 179, Type 1, Edgewise, Notch A, 23°C: 4.5 to 6.5 kJ/m²
Vicat Softening Temperature, ISO 306, B50 (50°C/h 50N): 148 to 151 °C
Density, ISO 1183: 1.4 to 1.42 g/cm³
Water Absorption, ISO 62, 23°C, Saturation: 0.7 to 0.9 %
Moisture Absorption, ISO 62, 23°C, 50% RH: 0.15 to 0.2 %

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