

PALFORM® R C 09 M

Acetal (POM) Copolymer
pal plast GmbH

Message:

PALFORM® R C 09 M is a polyoxymethylene (POM) copolymer product. It can be processed by injection molding and is available in Europe.
Features include:
flame retardant/rated flame
High stiffness
Impact resistance

General Information			
Features	Rigidity, high		
	Impact resistance, high		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.41	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	9.50	cm³/10min	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)	2700	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)	19	%	ISO 527-2/1A/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.0	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	110	kJ/m²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	149	°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: 8 to 11 cm³/10 minTensile Modulus, ISO 527, 23°C, 1 mm/min, Type A: 2600 to 2800 MPaTensile Stress at Yield, ISO 527, 23°C, 50 mm/min, Type A: 60 to 65 MPaTensile 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: 17 to 20 %Charpy Unnotched Impact, ISO 179, Type 1, Edgewise, 23°C: 100 to 120 kJ/m²Charpy Notched Impact, ISO 179, Type 1, Edgewise, Notch A, 23°C: 4 to 6 kJ/m²Vicat Softening Temperature, ISO 306, B50 (50°C/h 50N): 147 to 150 °CDensity, ISO 1183: 1.4 to 1.42 g/cm³Water 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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