

PALFORM® R C 09

Acetal (POM) Copolymer

pal plast GmbH

Message:

PALFORM® R C 09 is a polyoxymethylene (POM) copolymer product. It can be processed by injection molding and 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		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.41	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	9.50	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)	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)	28	%	ISO 527-2/1A/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	170	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: 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: 26 to 30 %Charpy Unnotched Impact, ISO 179, Type 1, Edgewise, 23°C: 150 to 180 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): 148 to 181 °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 %

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection.All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

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

