vinmar polymers america

VINPOL™ PO3406

Acetal (POM) Homopolymer

Melt Flow Rate: 34

Charpy Notched Impact: 6

VINPOL PO3406 is an Acetal (POM) homopolymer with fast molding cycle performance and high flow/low viscosity. This resin produces parts with low warpage. Typical applications include engineering parts, gears and housings. Automotive specifications include BOSCH 5515265 and DAIMLER DBL 5403.

Resin Property	Typical Value	Units	Test Method
Melt Flow, 190°C, 2.16 kg	34	g/10 min	ISO 1133
Density	1.42	g/cm^3	ASTM D-792
Mold Shrinkage, Flow	1.7-2.1	%	Supplier Method
Water Absorption (24 hr, 23°C, 50% RH)	0.20	%	ASTM D570
Tensile Modulus	3,400	MPa	ISO 527-1
Tensile Stress at Yield	73	MPa	ISO 527-2
Tensile Stress at Yield	75	MPa	ASTM D-638
Tensile Elongation at Break	20	%	ISO 527-2/ASTM D-638
Flexural Modulus	3,200	MPa	ISO 178/ASTM D-790
Flexural Strength	111	MPa	ASTM D-790
Taber Abrasion Resistance	13.0	mg	ASTM D-1044
Charpy Notched Impact Strength	6.0	kj/m^2	ISO 179
Notched Izod Impact	56	J/m	ASTM D-256
Rockwell Hardness	94	M Scale	ASTM D-785
Rockwell Hardness	120	R Scale	ASTM D-785
DTUL, 0.45 MPa, Unannealed	165	°C	ISO 75-2/B
DTUL, 0.45 MPa, Unannealed	172	°C	ASTM D-648
DTUL, 1.8 MPa, Unannealed	105	°C	ISO 75-2/A
DTUL, 1.8 MPa, Unannealed	136	°C	ASTM D-648
CLTE, Flow	1.0E-4	cm/cm/°C	ISO 11359/ASTM D696
Specific Heat	1,470	J/kg/°C	Supplier Method
Thermal Conductivity	0.23	W/m/K	Supplier Method
Flame Rating, 0.75 mm	HB	-	UL 94
Flame Rating, 1.5 mm	HB	-	UL 94

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