

Primocon GC25A

Acetal (POM) Copolymer

KMI Group, Inc.

Message:

Primocon GC25A Acetal Copolymer grade, is a glass coupled formulation containing 25% reinforced fiber glass. This grade offers excellent strength, stiffness and heat distortion temperature with lower mold shrinkage, minimum thermal expansion, excellent dimensional stability and good moldability.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 25% filler by weight		
Features	Good dimensional stability		
	Rigid, good		
	Copolymer		
	Good formability		
	Good strength		
Physical	Nominal Value	Unit	Test Method
Density	1.58	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Transverse flow	1.2	%	ISO 294-4
Flow	0.40	%	ISO 294-4
Water Absorption			ISO 62
Saturated, 23°C	0.80	%	ISO 62
Equilibrium, 23°C, 50% RH	0.20	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8600	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	106	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	2.0	%	ISO 527-2/1A/5
Flexural Modulus (23°C)	8700	MPa	ISO 178
Flexural Stress (23°C)	160	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	6.4	kJ/m ²	ISO 179/1e
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	35	kJ/m ²	ISO 179/1eU
23°C	25	kJ/m ²	ISO 179/1eU
Notched Izod Impact (23°C)	6.0	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	160	°C	ISO 75-2/A
Melting Temperature ¹	165	°C	ISO 11357-3
Linear thermal expansion coefficient			ISO 11359-2
Flow	2.5E-5	cm/cm/°C	ISO 11359-2

Lateral	1.2E-4	cm/cm/°C	ISO 11359-2
NOTE			
1.	10°C/min		

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