

KOCETAL® TC302

Acetal (POM) Copolymer

Kolon Plastics, Inc.

Message:

KOCETAL® TC302 is an Acetal (POM) Copolymer product filled with mineral. It is available in Asia Pacific, Europe, Latin America, or North America.

Characteristics include:

Flame Rated

Good Dimensional Stability

General Information			
Filler / Reinforcement	Mineral		
Features	Good Dimensional Stability		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.48	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	6.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.7	%	ASTM D955
Water Absorption (Equilibrium, 23°C, 60% RH)	0.20	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	82		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	62.0	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	14	%	ASTM D638
Flexural Modulus (23°C)	3600	MPa	ASTM D790
Flexural Strength (23°C)	98.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	40	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648A
0.45 MPa, Unannealed	162	°C	
1.8 MPa, Unannealed	135	°C	
Melting Temperature	166	°C	ASTM D1525
CLTE - Flow	8.0E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+16	ohms	ASTM D257
Volume Resistivity	1.0E+14	ohms · cm	ASTM D257
Dielectric Strength	19	kV/mm	ASTM D149
Dielectric Constant	3.70		ASTM D150
Dissipation Factor (1 MHz)	6.0E-3		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94

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