

KOCETAL® TC301

Acetal (POM) Copolymer

Kolon Plastics, Inc.

Message:

KOCETAL®TC301 is a polyoxymethylene (POM) copolymer product that contains a mineral filler. It is available in North America, Latin America, Europe or Asia Pacific.

Features include:

flame retardant/rated flame

Good dimensional stability

General Information			
Filler / Reinforcement	Mineral filler		
Features	Good dimensional stability		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.44	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	7.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.8	%	ASTM D955
Water Absorption (Equilibrium, 23°C, 60% RH)	0.20	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	81		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	65.0	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	25	%	ASTM D638
Flexural Modulus (23°C)	3100	MPa	ASTM D790
Flexural Strength (23°C)	100	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	45	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648A
0.45 MPa, not annealed	160	°C	ASTM D648A
1.8 MPa, not annealed	120	°C	ASTM D648A
Melting Temperature	166	°C	ASTM D1525
CLTE - Flow	1.0E-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

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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

