

KOCETAL® MS301S

Acetal (POM) Copolymer

Kolon Plastics, Inc.

Message:

KOCETAL® MS301S is an Acetal (POM) Copolymer product. It is available in Asia Pacific, Europe, Latin America, or North America.

Characteristics include:

Flame Rated

Lubricated

General Information			
Additive	Molybdenum Disulfide Lubricant		
Features	Low Friction		
	Lubricated		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.41	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	9.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	2.0	%	ASTM D955
Water Absorption (Equilibrium, 23°C, 60% RH)	0.21	%	ASTM D570

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	80		ASTM D785

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	54.0	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	60	%	ASTM D638
Flexural Modulus (23°C)	2500	MPa	ASTM D790
Flexural Strength (23°C)	83.0	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	59	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648A
0.45 MPa, Unannealed	158	°C	
1.8 MPa, Unannealed	110	°C	
Melting Temperature	166	°C	ASTM D1525
CLTE - Flow	1.3E-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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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

