

PRODUCT INFORMATION

Low Friction Grade

KOCETAL[®] MS301

Kocetal MS301 is molibdenum disulfide lubricated grade for low friction, wear and noise.

Property	Test Method	Units	Value
Physical			
Melt Index	ASTM D1238	g/10min	8.5~11
Specific Gravity	ASTM D792	-	1.41
Ash contents	-	%	2.5±0.5
Shrinkage	ASTM D955	%	2
Water Absorption 23 °C, Equilibrium 60%RH	ASTM D570	%	-
Thermal			
Melting Point	ASTM D1525	°C	166
Heat Deflection Temperature	ASTM D648		
HDT/A 4.6kg/cm ² (0.45MPa)		°C	-
HDT/A 18.6kg/cm ² (1.81MPa)		°C	-
Vicat Softening Temperature	ASTM D1525	°C	-
Coeff. Of Linear Thermal Expansion	ASTM D696	x 10 ⁻⁵ cm/cm·°C	-
Flammability	UL 94		HB
Mechanical			
Tensile Strength 23 °C	ASTM D638	kg/cm ² (MPa)	450 (44)
Tensile Elongation 23 °C	ASTM D638	%	40
Flexural Strength 23 °C	ASTM D790	kg/cm ² (MPa)	750 (74)
Flexural Modulus 23 °C	ASTM D790	kg/cm ² (MPa)	22000 (2156)
Notched Izod Impact Strength 23 °C	ASTM D256	kg·cm/cm (J/m)	4.5 (44)
Rockwell Hardness M scale	ASTM D785	-	80
Electrical			
Surface Resistivity	ASTM D257	x 10 ¹⁶ Ω	1
Volume Resistivity	ASTM D257	x 10 ¹⁴ Ω·m	1
Dielectric Strength	ASTM D149	kV/mm	-
Dielectric Constant	ASTM D150	-	-
Dielectric Dissipation FactorConstant 10 ⁶ Hz	ASTM D150	-	-
Arc Resistance 10 ⁶ Hz	ASTM D495	sec	-

The information provided in this data sheet is based on our present state of knowledge and is estimated by KTP. This information should not be used as guaranteeing specification limits. KTP make no warranty and liability in connection with any use of this information.

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