

Molding Compounds "KM-400Series" for Non-flammable

**Excellent flammability and Excellent properties.
 Raising the reliability of parts.**

Characteristic

KOCERA Chemical's Phenolic Molding Compounds "TECOLITE" are corresponding to the demand for raising the reliability of apparatus, such as flammability by UL regulation. "TECOLITE" have a good dimension stability under a use severe situation for a long period of time. Therefore, it is preeminent product for reliability parts. It is the best for a plug, commutators, heat-resistant electricity parts, etc.

Application



Test method : JIS K 6911(1995)

The values or properties are typical values, not a guaranteed value.

The property data changes according to the molding method and molding conditions at actual molded parts.

Items		Unit	KM-450(J)	KM-460(J)	KM-470(G)	
Resin-type		-	Two-Stage	Two-Stage	Two-Stage	
Color		-	Black	Black	Black	
Electrical Properties	Dielectric Strength		MV/m	> 8	> 10	
	Insulation Resistance	As Molded	ohm	10 ⁹ - 10 ¹⁰	10 ¹⁰ - 10 ¹¹	
		After Boiling	ohm	10 ⁸ - 10 ⁹	10 ⁹ - 10 ¹⁰	
Mechanical Properties	Flexural Strength		MPa	88 - 118	88 - 108	
	Charpy Impact Strength		KJ/m ²	2.45 - 3.43	2.45 - 3.43	
	Compressive Strength		MPa	225 - 255	225 - 255	
	Mold Shrinkage	Compression Molding		%	0.60 - 0.80	0.40 - 0.60
		Injection Molding	Flow Direction	%	1.1 - 1.3	0.8 - 1.0
			Vertical Direction	%	0.9 - 1.1	0.5 - 0.7
	Water Absorption		%	< 0.4	< 0.3	
	Heat-Deflection Temperature		deg C	170	180	
Specific Gravity		-	1.41	1.50		
Flammability Properties	Flammability		(UL-94)	V-0 (0.75mm)	V-0 (0.71mm)	
	Arc Resistance		s	140	180	
	Tracking Resistance		V	150	175	