

Molding Compounds “ KM-6540(J), KM-7000(G)” for High Strength

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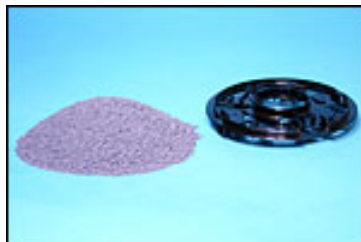
**Enabled substitution of metal parts with high strength.
Expands the possibility of design.**

Characteristic

KYOCERA Chemical's Phenolic Molding Compounds "TECOLITE" which filled glass fiber are enables substitution of metal parts with high strength and heat-resistant such as various housing parts.

Especially KM-7000G (Ammonia-free type) are suitable for electrical parts.

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-6540(J)	KM-7000(G)	
Resin-type			-	Two-Stage	Single-Stage	
Color			-	Black	Black	
Electrical Properties	Dielectric Strength		MV/m	> 10	> 10	
	Insulation Resistance	As Molded	ohm	10 ¹⁰ - 10 ¹¹	10 ¹¹ - 10 ¹²	
		After Boiling	ohm	10 ⁹ - 10 ¹⁰	10 ¹⁰ - 10 ¹¹	
Mechanical Properties	Flexural Strength		MPa	206 - 225	167 - 196	
	Charpy Impact Strength		KJ/m ²	4.41 - 5.39	3.92 - 4.90	
	Compressive Strength		MPa	225 - 284	235 - 224	
	Mold Shrinkage	Compression Molding		%	-	-
		Injection Molding	Flow Direction	%	0.5 - 0.7	0.5 - 0.7
			Vertical Direction	%	0.4 - 0.6	0.4 - 0.6
	Water Absorption		%	< 0.1	< 0.5	
	Heat-Deflection Temperature		deg C	200	230	
Specific Gravity		-	1.75	1.79		
Flammability Properties	Flammability		(UL-94)	V-0 equivalent	V-0 equivalent	
	Arc Resistance		s	-	180	
	Tracking Resistance		V	-	210	