PLAINTIFF'S EXHIBIT

UC-5305

BAKELITE®

UNION CARBIDE

PHENOLIC MOLDING MATERIALS

BMG-0750 Natural Electrical

Electrical

DESCRIPTION

BMG-0750 Natural is a mineral filled phenolic molding material of superior electrical insulating quality. Low dissipation factor and low loss factor recommend it particularly for high frequency insulation. BMG-0750 Natural is highly resistant to moisture and retains much of its superior electrical insulating quality even after exposure to moisture. It is also dimensionally stable. Good plastic and cure characteristics and improved mold release make BMG-0750 Natural suitable for either compression or transfer molding.

BMG-0750 Natural meets the requirements of Military Specification MIL-M-14F, Type MFE and ASTM Specification D 700, Type 7.

FABRICATION	
Plasticity Grades Available	6 9 12 15
Bulk Factor (D 392)	2.4 max.
Molding Shrinkage (D 955), inch/inch	0.003-0.005
MECHANICAL	
Izod Impact Strength (D 256), ft-lb. in. notch	0.35 av.
Compressive Strength (D 695), psi	28 000 av.
Tensile Strength (D 651), psi	6 600 av.
Flexural Strength (D 790), psi	8 700 av.
Modulus of Elasticity in Flexure (D 790), psi	2×10^6 av.
ELECTRICAL	
Dielectric Strength, Short Time (D 149), volts/mil	370. av.
Volume Resistivity (D 257), ohm-cm.	1.0×10^{13} av.
	60Hz / 1MHz
Dielectric Constant (D 150)	5.0. av. / 4.5. av.
Dissipation Factor (D 150)	0.03. av. / 0.015. av.
MISCELLANEOUS	
Molded Specific Gravity (D 792)	1.65-1.70
Deflection Temperature at 264 psi, (D 648), °F.	310. av.
Water Absorption, gain in weight (D 570), per cent	0.03 av.

IMPORTANT — The information is offered for your consideration, investigation and verification. It is not a warranty or representation. It is not permission or a suggestion to exploit a patented invention without a license.

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UNION CARBIDE CORPORATION • Chemicals and Plastics • 270 Park Avenue New York, N.Y. 10017

November, 1971
F-41907A

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FABRICATION	
Plasticity Grades Available	6.9 12.5
Flow Factor D 3923	2.4 Max.
Mold Shrinkage (D 955) inch/inch	0.003-0.005
MECHANICAL	
Izod Impact Strength D 256 ft.-lb. in. notch	0.35 av.
Compressive Strength D 695 psi.	28,000 av.
Tensile Strength (D 651) psi.	6,600 av.
Flexural Strength D 790 psi.	8,700 av.
Modulus of Elasticity in Flexure (D 790) psi.	2.13 av.
ELECTRICAL	
Dielectric Strength Short Time D 149 volts/mil	370. av.
Volume Resistivity D 257 ohm-cm.	1.0×10^{13} av.

	60Hz	1MHz
Dielectric Constant (D 150)	5.0. av.	4.5. av.
Dissipation Factor D 150	0.03. av.	0.015. av.

MISCELLANEOUS	
Molded Specific Gravity (D 792	1.65-1.70
Deflection Temp. at 264 psi. D 648 F.	310. av.
Water Absorption 24 hr. gain in weight D 570 per cent	0.03 av.

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BMG-0750 Natural meets the requirements of Military Specification MIL-M-14F, Type MFE and ASTM Specification D 700, Type 7.

FABRICATION		
Plasticity Grades Available	6 9 12 15	
Bulk Factor (D 392)	3.4 max.	
Molding Shrinkage (D 955) inch/inch	0.003-0.005	
MECHANICAL		
Izod Impact Strength (D 256) ft. lb. in. notch	0.35 av.	
Compressive Strength (D 695) psi	25 000 av.	
Tensile Strength (D 651) psi	6 600. av.	
Flexural Strength (D 790) psi	8 700 av.	
Modulus of Elasticity in Flexure (D 790), psi	2×10^6, av.	
ELECTRICAL		
Dielectric Strength, Short Time (D 149), volts/mil	370. av.	
Volume Resistivity (D 257), ohm-cm	1.0×10^{14}, av.	
	60Hz	1MHz
Dielectric Constant (D 150)	5.0. av.	4.5. av.
Dissipation Factor (D 150)	0.03. av.	0.015. av.
MISCELLANEOUS		
Molded Specific Gravity (D 792)	1.65-1.70	
Deflection Temperature at 264 psi, (D 648), °F.	310. av.	
Water Absorption, 24 hr. gain in weight (D 570), per cent	0.03. av.	

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