

Heat Resistant / Electrical

153 Typical Properties

153 Phenolic is two-stage, asbestos-free, heat resistant / electrical molding material. It exhibits good molded appearance and shock resistance for use on a wide variety of electrical and appliance applications. 153 Phenolic is designed to meet to requirements of Mil-M-14G, Type CFG.

Test Method 测试方法	ASTM (American Society for Testing and Materials)	
Features 特征	Heat resistant, improved impact	
Colour 色调	Black	
Material Form 粉末形状	Granular	
Type 种类	2-stage	
Moulding Method 成形方法	Compression Injection	
Physical Properties 物理特性		
- Bulk Factor 体积系数	D1895	2.60
- Apparent Density 视密度	D1895	0.60 g/cm ²
- Specific Gravity 比重	D792	1.53
- Moulded Shrinkage 成形收缩率	D955	0.60 % ~ 1.10 %
- Water Absorption 吸水率	D570	0.40 %
Mechanical Properties 机械特性		
- Tensile Strength 引张强度	D638	8,000 psi (55 Mpa)
- Flexural Strength 曲折强度	D790	12,000 psi (83 Mpa)
- Compressive Strength 压缩强度	D695	26,000 psi (180 Mpa)
- Impact, Izod 冲击强度	D256	0.33 ft-lb/in (18 J/m)
- Tensile Modulus 引张弹性率	D638	1.5 x 10 ⁶ psi (10,300 Mpa)
- Deflection Temperature @ 264 psi - 荷重变形温度 @ 264 psi	D648	180 °C
Electrical Properties 电气特性		
- Dielectric Strength 耐电压	D149	375 V/mil
- Volume Resistivity 体积抵抗	D257	1 x 10 ¹² ohm-cm
- CTI Tracking Index 耐电痕		225 V
Flame Resistance 耐燃性		
- UL Flammability UL 燃烧性		94V-0 @ 1.47 mm 94V-1 @ 1.02 mm
ASTM Type ASTM 种类	13	
Applications 用途	Thermal barriers Kitchenwares, etc.,	

Note: All specimens prepared by Compression Moulding.



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