

Heat Resistant / Electrical

156 Typical Properties

156 Phenolic is a two-stage, asbestos-free, heat resistant / electrical molding material. It exhibits excellent dimensional stability, high heat resistance, good molded appearance, and UL flammability rating. Typical applications include automotive carburetor spacers, sealing rings, thrust washers, speedometer sleeves, appliance terminals, probe controls, insulators, light baffles, etc.

Test Method 测试方法	ASTM (American Society for Testing and Materials)	
Features 特征	Heat resistant, dimensional stability	
Colour 色调	Black Brown	
Material Form 粉末形状	Granular	
Type 种类	2-stage	
Moulding Method 成形方法	Injection	
Physical Properties 物理特性		
- Bulk Factor 体积系数	D1895	2.70
- Apparent Density 视密度	D1895	0.59 g/cm ³
- Specific Gravity 比重	D792	1.56
- Moulded Shrinkage 成形收缩率	D955	0.40 % ~ 0.80 %
- Water Absorption 吸水率	D570	0.30 %
Mechanical Properties 机械特性		
- Tensile Strength 引张强度	D638	7,000 psi (48 Mpa)
- Flexural Strength 曲折强度	D790	10,500 psi (72 Mpa)
- Compressive Strength 压缩强度	D695	28,000 psi (190 Mpa)
- Impact, Izod 冲击强度	D256	0.30 ft-lb/in (16 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	191 °C
Electrical Properties 电气特性		
- Dielectric Strength 耐电压	D149	300 V/mil
- Volume Resistivity 体积抵抗	D257	1 x 10 ¹² ohm-cm
- CTI Tracking Index 耐电痕		180 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	Transformer bobbins, etc.,	

Note: All specimens prepared by Compression Moulding.



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