

115 Phenolic is a two-stage, asbestos free, general purpose molding material. It exhibits improved impact strength and resistance to flexural fatigue, good surface appearance for electrical applications (circuit-breakers). Shrinkage and mechanical strengths are closely controlled to meet parts reliability requirements.

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| Test Method 测试方法 | ASTM (American Society for Testing and Materials) | |
| Features 特征 | Dimensional stability, good appearance | |
| Colour 色调 | Black | |
| 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 | 2.50 |
| - Apparent Density 视密度 | D1895 | 0.56 g/cm ² |
| - Specific Gravity 比重 | D792 | 1.40 |
| - 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 | 10,500 psi (72 Mpa) |
| - Compressive Strength 压缩强度 | D695 | 32,000 psi (220 Mpa) |
| - Impact, Izod 冲击强度 | D256 | 0.30 ft-lb/in (16 J/m) |
| - Tensile Modulus 引张弹性率 | D638 | 1.4 x 10 ⁶ psi (9,700 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 | 325 V/mil |
| - Volume Resistivity 体积抵抗 | D257 | 1 x 10 ¹² ohm-cm |
| Flame Resistance 耐燃性 | | |
| - UL Flammability UL 燃烧性 | 94V-0 @ 3.20 mm | |
| ASTM Type ASTM 种类 | 2 | |
| Applications 用途 | Circuit breaker Meter casing, etc., | |

Note: All specimens prepared by Compression Moulding.



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