**Technical Data Sheet**

# *Bmc* 606

Thermoset Polyester
LyondellBasell Industries
Engineering Plastics

| Product Description |
|---|
| BMC 606 is a mineral filled, glass reinforced polyester compound suitable for compression, transfer and stuffer injection molding. It is characterized by good moldability, excellent impact strength, excellent overall electrical properties and flame resistance. Typical applications are circuit breakers, transformer bobbins, motor end bells and household appliances. |

| General | | |
|---|---|---|
| Filler / Reinforcement | • Glass\Mineral | |
| Features | • Flame Retardant<br>• Good Electrical Properties | • Good Moldability<br>• High Impact Resistance |
| Uses | • Appliances | • Electrical/Electronic Applications |
| Forms | • BMC - Bulk Molding Compound | |
| Processing Method | • Compression Molding | • Injection Molding |

| Physical | Nominal Value (English) | Nominal Value (SI) | Test Method |
|---|---|---|---|
| Density / Specific Gravity | 1.90 | 1.90 g/cm³ | ASTM D792 |
| Water Absorption (24 Hr, 73°f (23°c)) | 0.14 % | 0.14 % | ASTM D570 |
| **Mechanical** | **Nominal Value (English)** | **Nominal Value (SI)** | **Test Method** |
| Tensile Strength (Yield, Compression Molded) | 5500 psi | 37.9 MPa | ASTM D638 |
| Flexural Strength (Compression Molded) | 16000 psi | 110 MPa | ASTM D790 |
| **Impact** | **Nominal Value (English)** | **Nominal Value (SI)** | **Test Method** |
| Notched Izod Impact (Compression Molded) | 10 ft·lb/in | 530 J/m | ASTM D256 |
| **Hardness** | **Nominal Value (English)** | **Nominal Value (SI)** | **Test Method** |
| Barcol Hardness | 40 | 40 | ASTM D2583 |
| **Thermal** | **Nominal Value (English)** | **Nominal Value (SI)** | **Test Method** |
| Deflection Temperature Under Load | | | ASTM D648 |
| 264 Psi (1.8 Mpa), Unannealed, Compression Molded | 500 °F | 260 °C | |
| **Electrical** | **Nominal Value (English)** | **Nominal Value (SI)** | **Test Method** |
| Dielectric Strength (Method A (short-time)) | 350 V/mil | 14 kV/mm | ASTM D149 |
| Arc Resistance | 170 sec | 170 sec | ASTM D495 |
| **Flammability** | **Nominal Value (English)** | **Nominal Value (SI)** | **Test Method** |
| Flame Rating | V-0 | V-0 | UL 94 |

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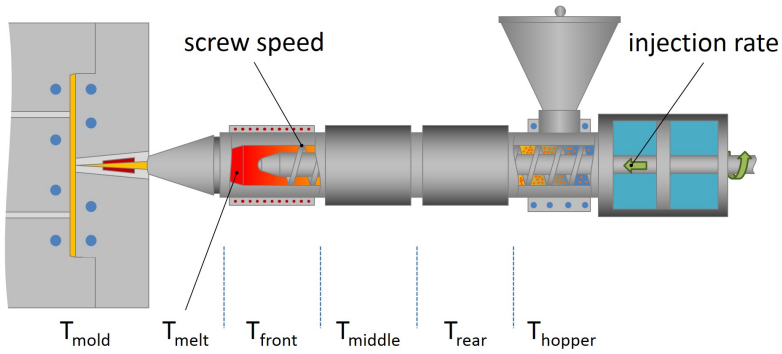


| Injection | Nominal Value (English) | Nominal Value (SI) |
|---|---|---|
| Mold Temperature | 280 to 330 °F | 138 to 166 °C |

**Notes**

These are typical property values not to be construed as specification limits.