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# Polyfort LPP40BK09BK-BKBLK

## LyondellBasell Industries - Polypropylene

### General Information

**Product Description**

Polyfort LPP40BK09BK-BKBLK is a Polypropylene, Unspecified Calcium Carbonate, 41% filled material and is typically used in Injection Molding applications. Features include: High Gloss, and Impact Modified.

**General**

| | | |
|---|---|---|
| Filler / Reinforcement | • Calcium Carbonate, 41% Filler by Weight | |
| Additive | • Impact Modifier | |
| Features | • High Gloss | • Impact Modified |
| Forms | • Pellets | |
| Processing Method | • Injection Molding | |

### Properties [1]

| Physical | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Density / Specific Gravity | 1.27 | | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 7.5 | g/10 min | ASTM D1238 |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Strength (73°F) | 3310 | psi | ASTM D638 |
| Tensile Elongation (Break, 73°F) | 40 | % | ASTM D638 |
| Flexural Modulus | | | ASTM D790 |
| 1% Secant : 73°F | 292000 | psi | |
| Tangent : 73°F | 373000 | psi | |
| Flexural Strength (73°F) | 5500 | psi | ASTM D790 |
| **Impact** | **Nominal Value** | **Unit** | **Test Method** |
| Notched Izod Impact (73°F) | 0.99 | ft·lb/in | ASTM D256 |
| Unnotched Izod Impact (73°F) | 14 | ft·lb/in | ASTM D4812 |
| Gardner Impact (73°F) | 133 | in·lb | ASTM D5420 |
| **Thermal** | **Nominal Value** | **Unit** | **Test Method** |
| Deflection Temperature Under Load (66 psi, Unannealed) | 225 | °F | ASTM D648 |
| Deflection Temperature Under Load | | | ASTM D648 |
| 264 psi, Unannealed | 135 | °F | |

### Processing Information

| Injection | Nominal Value | Unit |
|---|---|---|
| Drying Temperature | 176 | °F |
| Drying Time | 2.0 to 3.0 | hr |
| Processing (Melt) Temp | 428 to 500 | °F |
| Mold Temperature | 86 to 140 | °F |