

Braskem PP CP 286

Polypropylene Impact Copolymer

Braskem

Message:

CP 286 is a high melt flow rate, heterophasic copolymer, suitable for injection moulding applications and also as base resin for compound. The resin combines excellent stiffness with good impact resistance, even at sub-zero temperatures.

Applications:

Base resin for compounding, high impact resistance parts

Processing:

Injection Moulding

| General Information | | | |
|---|-----------------------------------|-------------------|----------------------|
| Features | Good Impact Resistance | | |
| | Good Stiffness | | |
| | High Flow | | |
| | Impact Copolymer | | |
| | Low Temperature Impact Resistance | | |
| Uses | Compounding | | |
| Agency Ratings | FDA 21 CFR 177.1520 | | |
| Processing Method | Injection Molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 0.895 | g/cm ³ | ASTM D792, ISO 1183 |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 18 | g/10 min | ASTM D1238, ISO 1133 |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness (R-Scale, Injection Molded) | 60 | | ASTM D785 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength (Yield, Injection Molded) | 22.0 | MPa | ASTM D638, ISO 527-2 |
| Tensile Strain | | | |
| Yield, Injection Molded | 6.0 | % | ISO 527-2 |
| Break, Injection Molded | 6.0 | % | ASTM D638 |
| Flexural Modulus | | | |
| 1% Secant : Injection Molded | 1100 | MPa | ASTM D790 |
| Injection Molded | 1000 | MPa | ISO 178 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact | | | |
| -20°C, Injection Molded | 75 | J/m | ASTM D256 |
| 23°C, Injection Molded | No Break | | ASTM D256 |
| -20°C, Injection Molded | 8.5 | kJ/m ² | ISO 180 |
| 23°C, Injection Molded | 47 | kJ/m ² | ISO 180 |

| Thermal | Nominal Value | Unit | Test Method |
|--|------------------|------|-------------------------|
| Deflection Temperature Under Load | | | ASTM D648 |
| 0.45 MPa, Unannealed, Injection Molded | 103 | °C | |
| 1.8 MPa, Unannealed, Injection Molded | 54.0 | °C | |
| Vicat Softening Temperature | 143 | °C | ASTM D1525 ¹ |
| NOTE | | | |
| 1. | Loading 1 (10 N) | | |

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