

CERTENE™ PBM-37

Polypropylene Impact Copolymer
Muehlstein

Message:

PBM-37 is a certified prime grade impact copolymer designed for injection molding of applications requiring optimal balance of stiffness and impact resistance. PBM-37 offers improved processability, high melt flow for easy filling multicavity and intricate mold geometry, fast cycling , and very good dimensional stability. PBM-37 applications include automotive interior trim, thin-walled parts, toys, overcaps, closures and household goods. PBM-37 complies with FDA regulation 21CFR 177.1520 (a)(3)(i) / (c)3.1 + 3.2, and most international regulations concerning the use of Polypropylene in contact with food.

| General Information | | | |
|---|------------------------------|-------------------|-------------|
| Features | Fast Molding Cycle | | |
| | Food Contact Acceptable | | |
| | Good Dimensional Stability | | |
| | Good Impact Resistance | | |
| | Good Processability | | |
| | Good Stiffness | | |
| | High Flow | | |
| | Impact Copolymer | | |
| Uses | Automotive Interior Trim | | |
| | Closures | | |
| | Household Goods | | |
| | Outdoor Furnishings | | |
| | Thin-walled Parts | | |
| | Toys | | |
| Agency Ratings | FDA 21 CFR 177.1520(a) 3 (i) | | |
| | FDA 21 CFR 177.1520(c) 3.1 | | |
| | FDA 21 CFR 177.1520(c) 3.2 | | |
| Forms | Pellets | | |
| Processing Method | Injection Molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 0.900 | g/cm ³ | ASTM D1505 |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 37 | g/10 min | ASTM D1238 |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness ¹ (R-Scale) | 87 | | ASTM D785 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength ² (Yield, Injection Molded) | 24.8 | MPa | ASTM D638 |

| | | | |
|--|------------------|------|-------------|
| Tensile Elongation ³ (Break, Injection Molded) | 55 | % | ASTM D638 |
| Flexural Modulus - 1% Secant ⁴ (Injection Molded) | 1100 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (23°C, Injection Molded) | 110 | J/m | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (0.45 MPa, Unannealed) | 93.3 | °C | ASTM D648 |
| NOTE | | | |
| 1. | Injection molded | | |
| 2. | 50 mm/min | | |
| 3. | 50 mm/min | | |
| 4. | 1.3 mm/min | | |

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