

EP440L

Description:

EP440L is a medium flow heterophasic polypropylene copolymer with improved mechanical properties balance. The product features high stiffness and outstanding impact strength at low temperatures and is specifically designed for injection molding applications. In comparison with conventional copolymers with the same MFR and same rigidity, EP440L, exhibits 35 % higher toughness. EP440L is suitable for a wide range of applications in the packaging, automotive and consumer goods industries. Typical applications include luggage, paint pails, buckets, containers, crates, batteries and large toys.

Processing Method:

Injection molding

Features:

High impact strength
High stiffness
Heterophasic copolymer

Typical Applications:

Packaging, automotive and consumer goods industries
Luggage, paint pails, buckets
Containers, crates, batteries and large toys

| TYPICAL PROPERTIES | VALUE | UNIT | METHOD |
|--|-------|-------------------|------------|
| Physical | | | |
| Melt Flow Rate (230 °C, 2.16kg) | 6.0 | g/10min | ASTM D1238 |
| Density | 0.9 | g/cm ³ | ASTM D1505 |
| Mechanical | | | |
| Flexural Modulus | 1400 | MPa | ASTM D790 |
| Tensile Strength at Yield | 26 | MPa | ASTM D638 |
| Tensile Elongation at Yield | 9 | % | ASTM D638 |
| Izod Impact Strength (notched) at 23 °C | 170 | J/m | ASTM D256 |
| Izod Impact Strength (notched) at -20 °C | 70 | J/m | ASTM D256 |
| Shore hardness (Shore D) | 68 | ---- | ISO 868 |
| Thermal | | | |
| Vicat softening point (10N) | 152 | °C | ASTM D1525 |
| H.D.T. (0.46 Mpa) | 95 | °C | ASTM D648 |
| Accelerated oven ageing in air at 150 °C | 360 | hours | ASTM D3012 |

