



Jampilen EP440G

Heterophasic copolymer

JAMPILEN POLYPROPYLENE

Description:

"Jampilen EP440G" is a nucleated heterophasic copolymer especially developed for extrusion applications. In comparison with standard polypropylene copolymers with the same fluidity, "Jampilen EP440G" exhibits higher stiffness, superior impact properties at room and sub-zero temperatures, very high dimensional stability and excellent creep and deforming resistance. The main applications of "Jampilen EP440G" are thermoforming, corrugated board and extrusion blow molding.

Processing Method:

Thermoforming
Extrusion blow molding
Injection molding

Features:

Very high impact resistance
High stiffness
Very high dimensional stability
Excellent creep and deforming resistance
Heterophasic copolymer

Typical Applications:

Corrugated board, panels, profiles and crates
Corrugated pipes for automotive and machine construction
Conduit pipes and fittings for electrical distribution and cable protection
Blow molded bottles and containers
Pipe fittings

| TYPICAL PROPERTIES | VALUE | UNIT | METHOD |
|--|-------|-------------------|------------|
| Physical | | | |
| Melt Flow Rate (230 °C, 2.16kg) | 1.3 | g/10min | ASTM D1238 |
| Density | 0.9 | g/cm ³ | ASTM D1505 |
| Mechanical | | | |
| Flexural Modulus | 1300 | MPa | ASTM D790 |
| Tensile Strength at Yield | 25 | MPa | ASTM D638 |
| Tensile Elongation at Yield | 6 | % | ASTM D638 |
| Izod Impact Strength (notched) at 23 °C | 500 | J/m | ASTM D256 |
| Izod Impact Strength (notched) at -20 °C | 70 | J/m | ASTM D256 |
| Thermal | | | |
| Vicat softening point (10N) | 150 | oC | ASTM D1525 |
| H.D.T. (0.46 MPa) | 92 | oC | ASTM D648 |
| Accelerated oven ageing in air at 150 oC | 360 | hours | ASTM D3012 |

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