

Jampilen EP540N

Polypropylene Copolymer
Jam Polypropylene Company

Message:

Jampilen EP540N is a nucleated heterophasic polypropylene copolymer with an improved mechanical properties balance. The product features outstanding stiffness and high impact strength at low temperatures and is designed for injection molding applications. In comparison with conventional copolymers, with the same MFR and the same toughness, Jampilen EP540N exhibits 20% higher rigidity. Jampilen EP540N is suitable for a wide range of applications in the packaging, automotive and consumer goods industries. Typical applications include housewares, containers, bins, baskets, flowerpots, toys, lids, caps and closures. The grade is also well suited for molded garden furniture, chair shells, crates, trays and automotive parts. Jampilen EP540N is suitable for food contact.

| General Information | | | |
|---|-----------------------------------|-------------------|-------------|
| Additive | Nucleating Agent | | |
| Features | Copolymer | | |
| | Food Contact Acceptable | | |
| | High Impact Resistance | | |
| | High Rigidity | | |
| | High Stiffness | | |
| | Low Temperature Impact Resistance | | |
| | Nucleated | | |
| Uses | Automotive Applications | | |
| | Caps | | |
| | Closures | | |
| | Consumer Applications | | |
| | Containers | | |
| | Crates | | |
| | Household Goods | | |
| | Lawn and Garden Equipment | | |
| | Lids | | |
| | Packaging | | |
| | Seats | | |
| | Support Trays | | |
| | Toys | | |
| 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) | 12 | g/10 min | ASTM D1238 |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness (R-Scale) | 98 | | ASTM D785 |

| Mechanical | Nominal Value | Unit | Test Method |
|--|------------------|------|-------------------------|
| Tensile Strength (Yield) | 27.0 | MPa | ASTM D638 |
| Tensile Elongation (Yield) | 8.0 | % | ASTM D638 |
| Flexural Modulus | 1500 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact | | | ASTM D256 |
| -20°C | 55 | J/m | |
| 23°C | 100 | J/m | |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (0.45 MPa, Unannealed) | 110 | °C | ASTM D648 |
| Vicat Softening Temperature | 149 | °C | ASTM D1525 ¹ |
| Accelerated Oven Ageing (150°C) | 360 | hr | ASTM D3012 |
| NOTE | | | |
| 1. | Loading 1 (10 N) | | |

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

