

Capilene® SB 56

Polypropylene Impact Copolymer

Carmel Olefins Ltd.

Message:

CAPILENE® SB 56 is a low melt flow rate impact copolymer intended for pipe extrusion. It exhibits excellent toughness combined with high impact strength even at low temperatures. Pipes and fittings made of it have long-term heat stability, which led to long service life.

Applications

CAPILENE® SB 56 is suitable for extrusion applications like sheets, boards, profiles, conduits, industrial pipes and corrugated hoses. It is also suitable for injection molding of fittings and technical components.

| General Information | |
|---------------------|-----------------------------------|
| Features | Good Heat Aging Resistance |
| | Good Impact Resistance |
| | Good Toughness |
| | Impact Copolymer |
| | Low Flow |
| | Low Temperature Impact Resistance |
| Uses | Conduit |
| | Corrugated Pipe |
| | Fittings |
| | Hose |
| | Piping |
| | Profiles |
| | Sheet |
| Agency Ratings | EC 1907/2006 (REACH) |
| Forms | Pellets |
| Processing Method | Extrusion |
| | Injection Molding |
| | Pipe Extrusion |
| | Profile Extrusion |
| | Sheet Extrusion |

| Physical | Nominal Value | Unit | Test Method |
|---|---------------|----------|--------------|
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 0.35 | g/10 min | ISO 1133 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Stress (Yield) | 25.0 | MPa | ISO 527-2/50 |
| Tensile Strain (Yield) | 12 | % | ISO 527-2/50 |
| Flexural Modulus ¹ | 1050 | MPa | ISO 178 |
| Impact | Nominal Value | Unit | Test Method |

| | | | |
|--|---------------|-------|-------------|
| Notched Izod Impact Strength | | | ISO 180 |
| -20°C | 7.0 | kJ/m² | |
| 23°C | No Break | | |
| Thermal | Nominal Value | Unit | Test Method |
| Heat Deflection Temperature (0.45 MPa, Unannealed) | 73.0 | °C | ISO 75-2/B |
| Vicat Softening Temperature | 150 | °C | ISO 306/A |
| NOTE | | | |
| 1. | 5.0 mm/min | | |

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