

Carmel Olefins CAPILENE® SE 50 E Polypropylene Impact Copolymer

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Impact Modified; Molded/Extruded

Material Notes:

Description: CAPILENE® SE 50 E is a low melt flow rate impact copolymer intended for sheet extrusion. It exhibits excellent impact strength even at low temperatures, combined with good processability, improved melt strength and good melt stability. Applications: CAPILENE® SE 50 E is suitable for extrusion applications like thin sheets, corrugated boards and profiles. It is also suitable for injection molding of technical components and for blow molding of hollow containers. Information provided by Carmel Olefins.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Carmel-Olefins-CAPILENE-SE-50-E-Polypropylene-Impact-Copolymer.php

| Physical Properties | Metric | English | Comments |
|---------------------|--|--|------------|
| Melt Flow | 1.3 g/10 min @Load 2.16 kg, Temperature 230 °C | 1.3 g/10 min @Load 4.76 lb, Temperature 446 °F | ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|-------------------------------------|--|----------------------|
| Tensile Strength, Yield | 24.0 MPa | 3480 psi | 50 mm/min; ASTM D638 |
| Elongation at Yield | 12 % | 12 % | 50 mm/min; ASTM D638 |
| Flexural Modulus | 1.15 GPa | 167 ksi | ASTM D790 |
| Izod Impact, Notched | 0.600 J/cm @Temperature -20.0 °C | 1.12 ft-lb/in @Temperature -4.00 °F | ASTM D256 |
| | 5.50 J/cm @Temperature 23.0 °C | 10.3 ft-lb/in @Temperature 73.4 °F | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|---|-------------------------|-------------------------|------------|
| Deflection Temperature at 0.46 MPa (66 psi) | 85.0 °C | 185 °F | ASTM D648 |
| Vicat Softening Point | 150 °C @Load 1.02 kg | 302 °F @Load 2.25 lb | ASTM D1525 |

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