

Developmental Polypropylene DCSP50.02

Sub-group:

Developmental Performance Polymer

Description:

Braskem Developmental DCSP50.02 is a Polypropylene impact copolymer primarily designed for injection molding containing a higher heat resistant additive package.

Braskem Developmental DCSP50.02 exhibits on a medium stiffness a high impact performance also at low temperatures.

Applications:

Braskem Developmental DCSP50.02 Polypropylene impact copolymer is recommended for injection moulding. This Polypropylene is particular designed for battery cases.

Properties:

Physical Properties ^{a)}	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.900 g/cm ³	0.900 g/cm ³	ISO 1183
Melt Flow Rate (230°C/2.16 kg)	5.5 g/10 min	5.5 g/10 min	ISO 1133
Flexural Modulus	179800 psi	1240 MPa	ISO 178
Tensile Stress at Yield	3595 psi	24.5 MPa	ISO 527-2
Tensile Modulus	184150 psi	1270 MPa	ISO 527-2
Charpy Impact Strength notched, (23°C, 73°F)	8.1 ft·lb/in ²	17 kJ/m ²	ISO 179/1eA
Charpy Impact Strength notched, (0°C, 32°F)	4.3 ft·lb/in ²	9 kJ/m ²	ISO 179/1eA
Charpy Impact Strength notched, (-20°C, -4°F)	3.1 ft·lb/in ²	6.5 kJ/m ²	ISO 179/1eA
Heat Deflection Temperature (0,45MPa)	189 °F	87 °C	ISO 75-2
Vicat Softening Temperature (10N)	304 °F	151 °C	ISO 306/A

a) These are typical properties from injection molding specimen according to ISO 294 only and are not to be construed as specifications. Users should confirm results by their own tests.

Processing conditions:

DCSP50.02 Developmental Polypropylene Resin is easy to process with injection molding equipment with conditions depending on the type of injection molding conversion technology applied. Recommended melt temperature range for injection molding from 210 to 260°C.

Storage:

Recommended storage is a cool, dry place protected from direct sunlight for maximum of 24 months after production.

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