

Developmental DC705.01

Subgroup

Impact Copolymer

Description:

DC705.01 Developmental Polypropylene Resin is a high performance impact copolymer for thin wall packaging containers requiring excellent taste and odor performance. The grade is a nucleated impact copolymer combining high flow with an excellent balance of mechanical properties even at low temperatures. DC705.01 Developmental Polypropylene Resin has been designed for short cycle times and good antistatic performance.

Applications:

- Thin wall packaging e.g. margarine tubs, dairy product pots, ice cream containers
- Thin wall consumer goods e.g. container, cool boxes, lids, housewares, flower pots

Process:

- High speed thin wall injection moulding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.900 g/cm ³	0.900 g/cm ³	ASTM D792
Melt Mass-Flow Rate (230°C/2.16 kg)	50 g/10 min	50 g/10 min	ASTM D1238

Mechanical*	Nominal Value (English)	Nominal Value (SI)	Test Method
Flexural Modulus	202700 psi	1400 MPa	ISO 178
Charpy Notched Impact Strength, 23°C	3.3 ft·lb/in ²	7.0 kJ/m ²	ISO 179/1eA
Charpy Notched Impact Strength, -20°C	1.9 ft·lb/in ²	4.0 kJ/m ²	ISO 179/1eA

* Injection molded specimen

