

Carmel Olefins CAPILENE® QW 73 AV Propylene Random Copolymer

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Molded

Material Notes:

Description: CAPILENE® QW 73 AV is a high melt flow rate, controlled rheology polypropylene random copolymer for injection molding of clear articles. CAPILENE® QW 73 AV is clarified with antistatic additivation. It exhibits good flowability combined with good impact strength at ambient temperature, low warpage and high transparency. Applications: CAPILENE® QW 73 AV is suitable for high speed injection molding of transparent items with thin walls and very long flow length. Typical applications are thin walled cups, containers, boxes and housewares products. Information provided by Carmel Olefins.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Carmel-Olefins-CAPILENE-QW-73-AV-Propylene-Random-Copolymer.php

Physical Properties	Metric	English	Comments
Melt Flow	70 g/10 min @Load 2.16 kg, Temperature 230 °C	70 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	25.0 MPa	3630 psi	50 mm/min; ASTM D638
Elongation at Yield	14 %	14 %	50 mm/min; ASTM D638
Flexural Modulus	1.05 GPa	152 ksi	ASTM D790
Izod Impact, Notched	0.400 J/cm	0.749 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	82.0 °C	180 °F	ASTM D648
Vicat Softening Point	130 °C @Load 1.02 kg	266 °F @Load 2.25 lb	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	10 % @Thickness 1.00 mm	10 % @Thickness 0.0394 in	ASTM D1003
Transmission, Visible	90 %	90 %	transparent; thickness not quantified

Processing Properties	Metric	English	Comments
Melt Temperature	210 - 260 °C	410 - 500 °F	

Mold Temperature Processing Properties	30.0 - 40.0 °C Metric	86.0 - 104 °F English	Comments
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