

Carmel Olefins CAPILENE® QU 73 AV Propylene Random Copolymer

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

Material Notes:

Description: CAPILENE® QU 73 AV is a high melt flow rate, controlled rheology polypropylene random copolymer for injection molding of clear articles. CAPILENE® QU 73 AV is clarified with antistatic additivation. It exhibits good organoleptic properties, good flowability combined with good impact strength at ambient temperature, low warpage and high transparency. Applications: CAPILENE® QU 73 AV is suitable for injection molding of transparent very thin walled items or those with complex geometry, household articles and clear packaging. Information provided by Carmel Olefins.

Order this product through the following link:

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

| Physical Properties | Metric | English | Comments |
|---------------------|---|---|------------|
| Melt Flow | 38 g/10 min @Load 2.16 kg, Temperature 230 °C | 38 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 | 0.500 J/cm | 0.937 ft-lb/in | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|---|-------------------------|-------------------------|------------|
| Deflection Temperature at 0.46 MPa (66 psi) | 80.0 °C | 176 °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 | 8.0 % @Thickness 1.00 mm | 8.0 % @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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Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China