

Borealis HD822CF Polypropylene

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

HD822CF is a polypropylene homopolymer. This grade is suitable for the manufacturing of unoriented films on cast and tubular quench film lines. Applications: food packaging, lamination films, stationery folders, textile packaging film, flower packaging, and multilayer structures. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-HD822CF-Polypropylene.php

| Physical Properties | Metric | English | Comments |
|---------------------|--|--|------------------------------------|
| Density | 0.900 - 0.910 g/cc | 0.0325 - 0.0329 lb/in ³ | base resin; ISO 1183 |
| Melt Flow | 8.0 g/10 min @Load 2.16 kg, Temperature 230 °C | 8.0 g/10 min @Load 4.76 lb, Temperature 446 °F | ISO 1133 |
| Antiblock Level | 1800 ppm | 1800 ppm | SiO ₂ ; Borealis Method |
| Slip Level | 1000 ppm | 1000 ppm | EAA and OAA; Borealis Method |

| Mechanical Properties | Metric | English | Comments |
|------------------------------------|-----------------------------------|-------------------------------------|------------------------|
| Film Elongation at Break, MD | 500 - 700 % | 500 - 700 % | ISO 527-3 |
| Film Elongation at Break, TD | 500 - 700 % | 500 - 700 % | ISO 527-3 |
| Tensile Modulus | 0.700 - 0.850 GPa | 102 - 123 ksi | MD/TD; ISO 527-3 |
| Flexural Modulus | 1.50 GPa | 218 ksi | ISO 178 |
| Dart Drop, Total Energy | 16.0 J @Thickness 0.0500 mm | 11.8 ft-lb @Thickness 0.00197 in | 1150N; ISO 7765-2 |
| Coefficient of Friction | 0.20 - 0.30 | 0.20 - 0.30 | film to film; ISO 8295 |
| Film Tensile Strength at Break, MD | 30.0 - 50.0 MPa | 4350 - 7250 psi | ISO 527-3 |
| Film Tensile Strength at Break, TD | 25.0 - 45.0 MPa | 3630 - 6530 psi | ISO 527-3 |

| Thermal Properties | Metric | English | Comments |
|-----------------------|-------------------------|-------------------------|---------------|
| Melting Point | 160 - 164 °C | 320 - 327 °F | DSC; ISO 3146 |
| Vicat Softening Point | 152 °C @Load 1.02 kg | 306 °F @Load 2.25 lb | A50; ISO 306 |

| Optical Properties | Metric | English | Comments |
|--------------------|----------|----------|------------------------|
| Haze | <= 2.5 % | <= 2.5 % | ASTM D1003 |
| Gloss | >= 120 % | >= 120 % | 20° of arc; ASTM D2457 |

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