

Borealis HD244CF Polypropylene

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

HD244CF is a homopolymer film resin, suitable for the manufacturing of unoriented film on chill roll process. Applications: food packaging, lamination films, stationery folders, multi layer co-extrusion films, flower packaging, and textile packaging film. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-HD244CF-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 |
| Slip Level | 2000 ppm | 2000 ppm | 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 | 0.650 - 0.750 GPa | 94.3 - 109 ksi | MD/TD; ISO 527-3 |
| Flexural Modulus | 1.30 GPa | 189 ksi | ISO 178 |
| Dart Drop, Total Energy | 14.0 J @Thickness 0.0500 mm | 10.3 ft-lb @Thickness 0.00197 in | 1100N; ISO 7765-2 |
| Coefficient of Friction | 0.15 - 0.25 | 0.15 - 0.25 | 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 | 162 - 166 °C | 324 - 331 °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 |
|--------------------|--------|---------|----------|
|--------------------|--------|---------|----------|

| Optical Properties | Metric % | English | Comments ¹³ |
|--------------------|----------|----------|------------------------|
| Gloss | >= 120 % | >= 120 % | 20° of arc; ASTM D2457 |

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