

Borealis Daploy™ WF420HMS High Melt Strength Polypropylene for Extrusion Coating

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Extrusion Grade

Material Notes:

Daploy WF420HMS resin is a propylene-based, structurally isomeric polymer, which combines significantly increased melt strength with largely drawability of the polymer melt. Thus, the material is generally characterized by improved processability in polymer forming technologies where stretching flows occur. Materials, such as paper and board, coated with Daploy WF420HMS have high grease resistance. They can be submerged in boiling water for a certain period of time without deterioration. Daploy WF420HMS can be used in microwave oven applications. With a considerably low coating weight a practically pinholes-free coating can be achieved. Information provided by the Manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Daploy-WF420HMS-High-Melt-Strength-Polypropylene-for-Extrusion-Coating.php

| Physical Properties | Metric | English | Comments |
|---------------------|---|---|-------------------|
| Density | 0.905 g/cc | 0.0327 lb/in ³ | ISO 1183 |
| Melt Flow | 22 g/10 min @Load 2.16 kg, Temperature 230 °C | 22 g/10 min @Load 4.76 lb, Temperature 446 °F | DIN 5335/ISO 1133 |
| Neck In | 7.00 cm | 2.76 in | BTM 00115 |
| Coating Weight | 10.0 g/m ² | 6.25 lb/ream | BTM 00117 |

| Mechanical Properties | Metric | English | Comments |
|------------------------|-------------------------|----------------------------|-------------|
| Tensile Modulus | 1.55 GPa | 225 ksi | ISO 527 |
| Charpy Impact, Notched | 0.350 J/cm ² | 1.67 ft-lb/in ² | ISO 179/1eA |

| Thermal Properties | Metric | English | Comments |
|-----------------------|--------------|--------------|----------------------|
| Melting Point | 162 - 165 °C | 324 - 329 °F | ISO 3146 |
| Vicat Softening Point | 153 °C | 307 °F | A/50 (10 N); ISO 306 |

| Optical Properties | Metric | English | Comments |
|--------------------|--------|---------|------------|
| Gloss | 100 % | 100 % | ASTM D2457 |

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