

Bapolene® 4052F Polypropylene, Blown Film Grade

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

Material Notes:

Bapolene PP4052F is a PP homopolymer for blown film applications. It contains slip and antiblock additives as processing aids. It offers good clarity and optical properties. This product meets FDA standards for food contact applications. Applications: Film and sheet Bapolene® and Bapolan® are registered trademarks of Bamberger Polymers, Inc. Information provided by Bamberger Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_Bapolene-4052F-Polypropylene-Blown-Film-Grade.php

| Physical Properties | Metric | English | Comments |
|-----------------------|--|--|------------|
| Density | 0.906 g/cc | 0.0327 lb/in ³ | ASTM D1505 |
| Water Absorption | <= 0.010 % | <= 0.010 % | ASTM D-570 |
| Linear Mold Shrinkage | 0.015 - 0.020 cm/cm | 0.015 - 0.020 in/in | ASTM D-955 |
| 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 | ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|------------|----------------|----------------------------------|
| Hardness, Rockwell R | 101 | 101 | ASTM D-785 |
| Tensile Strength, Yield | 37.2 MPa | 5400 psi | 2 in/min (50 mm/min); ASTM D-638 |
| Elongation at Break | 78 % | 78 % | 2 in/min (50 mm/min); ASTM D-638 |
| Elongation at Yield | 8.0 % | 8.0 % | 2 in/min (20 mm/min); ASTM D-638 |
| Flexural Modulus | 1.53 GPa | 222 ksi | Secant @ 1% strain; ASTM D-790 |
| Izod Impact, Notched | 0.270 J/cm | 0.506 ft-lb/in | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|---|--------|---------|-----------|
| Deflection Temperature at 0.46 MPa (66 psi) | 108 °C | 226 °F | ASTM D648 |

| Processing Properties | Metric | English | Comments |
|-----------------------|--------------|--------------|----------|
| Melt Temperature | 218 - 260 °C | 424 - 500 °F | |

| Descriptive Properties | Value | Comments |
|------------------------|-------|----------|
| Process | Film | |

| Region Descriptive Properties | Europe/Turkey Value | Comments |
|----------------------------------|------------------------|----------|
| | International | |

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