

Formosa Plastics Formolene® 41010 BCF Fiber Spinning Polypropylene

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

Material Notes:

Homopolymer Applications: Multifilament and bulk continuous filament fiber. Formolene 41010 is a low viscosity, highly isotactic polypropylene homopolymer designed primarily for multifilament and bulk continuous filament fiber. It contains a unique combination of stabilizers which give it excellent gas fading resistance, mild UV resistance and appropriate process stability. Specimens were injection molded according to the conditions specified in ASTM D4101. Information provided by Formosa Plastics Corporation, USA.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Formosa-Plastics-Formolene-41010-BCF-Fiber-Spinning-Polypropylene.php

| Physical Properties | Metric | English | Comments |
|---------------------|------------------------------------|------------------------------------|---------------------------|
| Density | 0.900 g/cc | 0.0325 lb/in ³ | ASTM D1505 |
| Melt Flow | 19 g/10 min @Temperature 230 °C | 19 g/10 min @Temperature 446 °F | 1₂; ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|------------|----------------|-------------------------------------|
| Hardness, Rockwell R | 105 | 105 | ASTM D785 |
| Tensile Strength, Yield | 34.5 MPa | 5000 psi | 2" (50mm) per min.; ASTM D638 |
| Elongation at Yield | 9.0 % | 9.0 % | 2" (50mm) per min.; ASTM D638 |
| Flexural Modulus | 1.38 GPa | 200 ksi | 1.3mm per min, 1% secant; ASTM D790 |
| Izod Impact, Notched | 0.267 J/cm | 0.500 ft-lb/in | ASTM D256 |

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