

Bapolene® PP5052 Polypropylene, Injection Grade

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

Material Notes:

Polypropylene injection impact copolymer with excellent color and processability. This resin also has a superior balance of stiffness and impact strength. This product meets FDA standards for food contact applications. Applications: Battery cases, housewares, appliances. 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-PP5052-Polypropylene-Injection-Grade.php

| Physical Properties | Metric | English | Comments |
|---------------------|--|--|------------|
| Density | 0.903 g/cc | 0.0326 lb/in ³ | ASTM D1505 |
| 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, Shore D | 82 | 82 | ASTM D-2240 |
| Tensile Strength, Yield | 26.9 MPa | 3900 psi | 2 in/min (50 mm/min); ASTM D638 |
| Elongation at Break | 160 % | 160 % | 2 in/min (50 mm/min); ASTM D638 |
| Elongation at Yield | 14 % | 14 % | 2 in/min (20 mm/min); ASTM D638 |
| Flexural Modulus | 1.21 GPa | 175 ksi | Secant @ 1% strain; ASTM D-790 |
| Izod Impact, Notched | 1.17 J/cm | 2.19 ft-lb/in | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|---|---------|---------|-----------|
| Deflection Temperature at 0.46 MPa (66 psi) | 84.0 °C | 183 °F | ASTM D648 |

| Descriptive Properties | Value | Comments |
|------------------------|-------------------|---------------------------------|
| Process | Injection Molding | |
| Region | Europe/Turkey | Bamberger Polymers Distribution |
| | International | Bamberger Polymers Distribution |
| | Mexico | Bamberger Polymers Distribution |
| | US & Canada | Bamberger Polymers Distribution |

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