

Braskem INSPIRE™ 114 Performance Polypropylene Polymer

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Blow Molding Grade , Polypropylene, Extrusion Grade , Polypropylene, Impact Modified; Molded/Extruded , Polypropylene, Sheet/Thermoforming Grade

Material Notes:

Overview High melt strength High toughness Excellent processability High impact and puncture resistance High film stiffness/machinability High heat resistance Complies with U.S. FDA FCN 843, Europe EU-Directive 2002/72/EC INSPIRE™ 114 Performance Polymer is intended for use in blown film extrusion. Film produced from this resin offers improved stiffness, heat resistance, creep resistance, puncture strength and toughness over competitive polyethylene films. Coextruded structures offer a broad range of potential properties including high stiffness, high clarity, excellent sealability and good barrier properties. INSPIRE 114 Performance Polymer offers high output rates, thin or thick film production with excellent bubble stability, and good gauge uniformity. INSPIRE™ 114 Performance Polymer is a propylene-based resin that is also intended for use in sheet extrusion, thermoforming, and blow molding. This product line was spun off from Dow Chemical to Braskem

Order this product through the following link:

http://www.lookpolymers.com/polymer_Braskem-INSPIRE-114-Performance-Polypropylene-Polymer.php

| Physical Properties | Metric | English | Comments |
|------------------------|---|---|----------------|
| Density | 0.900 g/cc | 0.0325 lb/in ³ | ASTM D792 |
| Thickness | 50.8 microns | 2.00 mil | Film Thickness |
| Melt Index of Compound | 0.50 g/10 min @Load 2.16 kg, Temperature 230 °C | 0.50 g/10 min @Load 4.76 lb, Temperature 446 °F | ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|------------------------------------|----------|------------|-------------------------------------|
| Film Tensile Strength at Yield, MD | 30.8 MPa | 4470 psi | 50.8 microns, Blown Film; ASTM D882 |
| Film Tensile Strength at Yield, TD | 25.2 MPa | 3650 psi | 50.8 microns, Blown Film; ASTM D882 |
| Tensile Strength, Yield | 30.0 MPa | 4350 psi | ASTM D638 |
| Film Elongation at Break, MD | 700 % | 700 % | 50.8 microns, Blown Film; ASTM D882 |
| Film Elongation at Break, TD | 850 % | 850 % | 50.8 microns, Blown Film; ASTM D882 |
| Film Elongation at Yield, MD | 14 % | 14 % | 50.8 microns, Blown Film; ASTM D882 |
| Film Elongation at Yield, TD | 12 % | 12 % | 50.8 microns, Blown Film; ASTM D882 |
| Elongation at Yield | 12 % | 12 % | ASTM D638 |
| Flexural Modulus, 1% Secant | 1480 MPa | 215000 psi | ASTM D790A |

| Mechanical Properties | Metric | English | Comments |
|------------------------------------|---------------|----------------|---------------------------------------|
| Secant Modulus, TD | 0.772 GPa | 112 ksi | 2% secant modulus; ASTM D882 |
| Izod Impact, Notched | NB | NB | ASTM D256A |
| Dart Drop Test | 120 g | 0.265 lb | 50.8 microns, Blown Film; ASTM D1709A |
| Film Tensile Strength at Break, MD | 47.9 MPa | 6950 psi | 50.8 microns, Blown Film; ASTM D882 |
| Film Tensile Strength at Break, TD | 36.9 MPa | 5350 psi | 50.8 microns, Blown Film; ASTM D882 |

| Thermal Properties | Metric | English | Comments |
|---------------------------|---------------|----------------|-----------------|
| Melting Point | 164 °C | 327 °F | DSC; Dow Method |

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