

Multibase Nylex™ 2185 HFX Natural Polyamide + PP

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

Material Notes:

Forms: Pellets Processing Methods: Injection molding Features: Tensile Strength, High Information provided by Multibase

Order this product through the following link:

http://www.lookpolymers.com/polymer_Multibase-Nylex-2185-HFX-Natural-Polyamide-PP.php

| Physical Properties | Metric | English | Comments |
|-----------------------|--|--|------------|
| Specific Gravity | 0.972 g/cc | 0.972 g/cc | ASTM 792 |
| Linear Mold Shrinkage | 0.012 cm/cm | 0.012 in/in | ASTM D955 |
| Melt Flow | 4.7 g/10 min @Load 2.16 kg, Temperature 230 °C | 4.7 g/10 min @Load 4.76 lb, Temperature 446 °F | ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|------------|---------------|---|
| Tensile Strength, Ultimate | 44.1 MPa | 6400 psi | ASTM D638 |
| Elongation at Break | 27 % | 27 % | ASTM D638 |
| Flexural Strength | 66.9 MPa | 9700 psi | ASTM D790 |
| Flexural Modulus | 2.10 GPa | 305 ksi | Method I (3 point load), Procedure B); ASTM D790 |
| Izod Impact, Notched | 0.534 J/cm | 1.00 ft-lb/in | 73°F; ASTM D256 |
| Gardner Impact | 2.260 J | 1.667 ft-lb | ASTM D3029 |

| Thermal Properties | Metric | English | Comments |
|--|---------|---------|-----------------------|
| Deflection Temperature at 0.46 MPa (66 psi) | 141 °C | 286 °F | Unannealed; ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 77.2 °C | 171 °F | Unannealed; ASTM D648 |
| Vicat Softening Point | 161 °C | 322 °F | ASTM D1525 |

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