

Honeywell Capran® 518 LL Heat Stabilized Nylon Film (discontinued **)

Category : Polymer , Film , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Film Grade

Material Notes:

Description: Capran® 518 LL is a green tinted, heat-stabilized blown film produced from low lactam nylon-6 resin. It is recommended as bagging film for advanced composite fabrication and other high temperature applications where softness and workability are essential. Capran® 518 LL has excellent heat stability and resistance to pinholing. It can be used at temperatures up to 390°F (199°C) for typical composite cure cycle times. Information provided by Honeywell.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Honeywell-Capran-518-LL-Heat-Stabilized-Nylon-Film-nbspdiscontinued-.php

| Physical Properties | Metric | English | Comments |
|---------------------|--------------|---------------|---------------|
| Density | 1.13 g/cc | 0.0410 lb/in³ | Yield Density |
| Thickness | 50.8 microns | 2.00 mil | |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|-----------|-----------|-----------------------|
| Tensile Strength, Ultimate | 112 MPa | 16200 psi | ASTM D882 |
| Tensile Strength, Yield | 28.0 MPa | 4060 psi | ASTM D882 |
| Elongation at Break | 375 % | 375 % | ASTM D882 |
| Secant Modulus, MD | 0.517 GPa | 75.0 ksi | ASTM D882 |
| Tear Strength Test | 65 | 65 | grams/mil; ASTM D1922 |

| Thermal Properties | Metric | English | Comments |
|--------------------|--|--|---|
| Melting Point | 218 - 220 °C | 424 - 428 °F | crystalline melting point; Hot Stage Microscope |
| Shrinkage | <= 2.00 % @Temperature 149 °C, Time 1800 sec | <= 2.00 % @Temperature 300 °F, Time 0.500 hour | ASTM D1204 |

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