

## Polimeri Europa Greenflex® FD 20 Ethylene Vinyl Acetate Copolymer - Blown Film Extrusion

Category : Polymer , Film , Thermoplastic , Ethylene Vinyl Acetate , Ethylene Vinyl Acetate Copolymer (EVA), Film Grade

### Material Notes:

Greenflex FD 20 is an ethylene vinyl acetate copolymer (EVA) suitable for blown film extrusion. Films produced with Greenflex FD 20 exhibit good optical properties, high impact resistance, tensile strength, elongation at break and low creep. Main Applications: Greenflex FD 20 is recommended for thermo-shrinkable films for food packaging, including deep-frozen food packaging. Information provided by Polimeri Europa.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Polimeri-Europa-Greenflex-FD-20-Ethylene-Vinyl-Acetate-Copolymer-Blown-Film-Extrusion.php](http://www.lookpolymers.com/polymer_Polimeri-Europa-Greenflex-FD-20-Ethylene-Vinyl-Acetate-Copolymer-Blown-Film-Extrusion.php)

| Physical Properties   | Metric                                                | English                                               | Comments        |
|-----------------------|-------------------------------------------------------|-------------------------------------------------------|-----------------|
| Specific Gravity      | 0.924 g/cc                                            | 0.924 g/cc                                            | ISO 1183        |
| Vinyl Acetate Content | 5.0 %                                                 | 5.0 %                                                 | Internal Method |
| Thickness             | 50.0 - 200 microns                                    | 1.97 - 7.87 mil                                       | Recommended     |
| Melt Flow             | 0.50 g/10 min<br>@Load 2.16 kg,<br>Temperature 190 °C | 0.50 g/10 min<br>@Load 4.76 lb,<br>Temperature 374 °F | ISO 1133        |

| Mechanical Properties              | Metric          | English      | Comments        |
|------------------------------------|-----------------|--------------|-----------------|
| Hardness, Shore A                  | 95              | 95           | ISO 868/A       |
| Hardness, Shore D                  | 44              | 44           | ISO 868/A       |
| Film Tensile Strength at Yield, MD | 8.00 MPa        | 1160 psi     | ISO 527-3       |
| Film Tensile Strength at Yield, TD | 8.00 MPa        | 1160 psi     | ISO 527-3       |
| Film Elongation at Break, MD       | 450 %           | 450 %        | ISO 527-3       |
| Film Elongation at Break, TD       | 600 %           | 600 %        | ISO 527-3       |
| Coefficient of Friction, Dynamic   | >= 0.50         | >= 0.50      | ISO 8295        |
| Elmendorf Tear Strength, MD        | 2.6494 g/micron | 67.295 g/mil | ISO 6383-2      |
| Elmendorf Tear Strength, TD        | 4.076 g/micron  | 103.5 g/mil  | ISO 6383-2      |
| Dart Drop Test                     | 420 g           | 0.926 lb     | F50; ISO 7765-1 |
| Film Tensile Strength at Break, MD | 26.0 MPa        | 3770 psi     | ISO 527-3       |
| Film Tensile Strength at Break, TD | 26.0 MPa        | 3770 psi     | ISO 527-3       |

| 1% Secant Modulus, MD<br>Mechanical Properties | 120 MPa<br>Metric | 17400 psi<br>English | ISO 527-3<br>Comments |
|------------------------------------------------|-------------------|----------------------|-----------------------|
| 1% Secant Modulus, TD                          | 125 MPa           | 18100 psi            | ISO 527-3             |

| Thermal Properties      | Metric                   | English                 | Comments        |
|-------------------------|--------------------------|-------------------------|-----------------|
| Melting Point           | 104 °C                   | 219 °F                  | Internal Method |
| Vicat Softening Point   | 85.0 °C<br>@Load 1.00 kg | 185 °F<br>@Load 2.20 lb | ISO 306/A       |
| Brittleness Temperature | <= -80.0 °C              | <= -112 °F              | ASTM D746       |

| Optical Properties | Metric | English | Comments        |
|--------------------|--------|---------|-----------------|
| Haze               | 4.0 %  | 4.0 %   | ISO 14782       |
| Gloss              | 73 %   | 73 %    | 45°; ASTM D2457 |

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