

Braskem TN2020 EVA General Film Copolymer

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

Material Notes:

TN2020 is an Ethylene-Vinyl Acetate (EVA) copolymer developed to mostly meet the needs of the multi-layer packaging segment produced by coextrusion and/or lamination processes. Multilayer structures with TN2020 can be irradiated to improve physical properties, such as: adhesion between layers, puncture resistance, and hot sealing. Since it presents an exceptional weldability, this product meets the requirements for automatic or semi-automatic lines of cutting, welding, and/or packaging (with or without vacuum-packed process). It has excellent performance during the extrusion operation, thermal stability, and a low consumption of energy for its processing. These characteristics render to package production with dimensional uniformity and excellent visual properties with high transparency and gloss that enhance the printing and surface finish of the packaging. It contains antioxidant additives. Its applications include: shrinkable coextruded films for food packaging--cheese, meat, ham, salami and other processed meats--and packaging for frozen products.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Braskem-TN2020-EVA-General-Film-Copolymer.php

| Physical Properties | Metric | English | Comments |
|-----------------------|--|--|------------|
| Density | 0.931 g/cc | 0.0336 lb/in ³ | ASTM-D1505 |
| Vinyl Acetate Content | 8.5 % | 8.5 % | |
| Melt Flow | 2.0 g/10 min @Load 2.16 kg, Temperature 190 °C | 2.0 g/10 min @Load 4.76 lb, Temperature 374 °F | ASTM-D1238 |

| Mechanical Properties | Metric | English | Comments |
|------------------------------|---------------|-----------|------------------------------|
| Hardness, Shore A | 93 | 93 | ASTM-D2240 |
| Hardness, Shore D | 45 | 45 | ASTM-D2240 |
| Tensile Strength at Break | 19.0 MPa | 2760 psi | ASTM-D638 |
| Film Elongation at Break, MD | 435 % | 435 % | ASTM-D882 |
| Film Elongation at Break, TD | 745 % | 745 % | ASTM-D882 |
| Elongation at Break | 700 % | 700 % | ASTM-D638 |
| Secant Modulus, MD | 0.0760 GPa | 11.0 ksi | 2% Secant Modulus; ASTM-D882 |
| Secant Modulus, TD | 0.0790 GPa | 11.5 ksi | 2% Secant Modulus; ASTM-D882 |
| Elmendorf Tear Strength MD | 325 g | 325 g | ASTM-D1922 |
| Elmendorf Tear Strength TD | 245 g | 245 g | ASTM-D1922 |
| Elmendorf Tear Strength, MD | 6.50 g/micron | 165 g/mil | ASTM-D1922 |

| Elmendorf Tear Strength, TD Mechanical Properties | 4.90 g/micron Metric | 124 g/mil English | ASTM-D1922 Comments |
|--|-------------------------|----------------------|------------------------|
| Dart Drop | 4.50 g/micron | 114 g/mil | ASTM-D1709 (Method B) |
| Dart Drop Test | 225 g | 0.496 lb | ASTM-D1709 (Method B) |
| Film Tensile Strength at Break, MD | 24.0 MPa | 3480 psi | ASTM-D882 |
| Film Tensile Strength at Break, TD | 20.0 MPa | 2900 psi | ASTM-D882 |

| Thermal Properties | Metric | English | Comments |
|-----------------------|--------------------------|-------------------------|------------|
| Melting Point | 100 °C | 212 °F | ASTM-D3418 |
| Vicat Softening Point | 79.0 °C @Load 1.02 kg | 174 °F @Load 2.25 lb | ASTM-D1525 |

| Optical Properties | Metric | English | Comments |
|--------------------|--------|---------|-----------------------|
| Haze | 1.8 % | 1.8 % | ASTM-D1003 |
| Gloss | 86 % | 86 % | Angle 45°; ASTM-D2457 |

| Processing Properties | Metric | English | Comments |
|-----------------------|--------------|--------------|---------------------|
| Melt Temperature | 165 - 185 °C | 329 - 365 °F | Blow Film Extrusion |
| Die Opening | 0.100 cm | 0.0394 in | Blow Film Extrusion |
| Blow-up Ratio (BUR) | 2.0 - 3.0 | 2.0 - 3.0 | Blow Film Extrusion |

| Descriptive Properties | Value | Comments |
|--------------------------|---------|---------------------|
| Temperature Profile (°C) | 135-185 | Blow Film Extrusion |

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