

## Braskem CN8092 EVA Molding Copolymer

Category : Polymer , Thermoplastic , Ethylene Vinyl Acetate

### Material Notes:

CN8092 is an Ethylene-Vinyl Acetate copolymer (EVA) which has a molecular structure that provides easy processing, adhesion, resilience, low hardness, good moisture, and gas barrier properties. It is a non-halogen resin that has excellent thermal stability and a low content of oligomers, with low influence on organoleptic properties of the products. The melt properties of this resin allow processability in cast film and tubular film equipment. It contains antioxidant additives. Its applications include: base resin for production of compounds for cap liners in carbonated beverages; compounds; and master batches.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Braskem-CN8092-EVA-Molding-Copolymer.php](http://www.lookpolymers.com/polymer_Braskem-CN8092-EVA-Molding-Copolymer.php)

| Physical Properties   | Metric                                               | English                                              | Comments   |
|-----------------------|------------------------------------------------------|------------------------------------------------------|------------|
| Density               | 0.934 g/cc                                           | 0.0337 lb/in <sup>3</sup>                            | ASTM-D1505 |
| Vinyl Acetate Content | 15.5 %                                               | 15.5 %                                               |            |
| Melt Flow             | 8.5 g/10 min<br>@Load 2.16 kg,<br>Temperature 190 °C | 8.5 g/10 min<br>@Load 4.76 lb,<br>Temperature 374 °F | ASTM-D1238 |

| Mechanical Properties     | Metric   | English   | Comments   |
|---------------------------|----------|-----------|------------|
| Hardness, Shore A         | 91       | 91        | ASTM-D2240 |
| Hardness, Shore D         | 44       | 44        | ASTM-D2240 |
| Tensile Strength at Break | 17.0 MPa | 2470 psi  | ASTM-D638  |
| Tensile Strength, Yield   | 4.70 MPa | 682 psi   | ASTM-D638  |
| Elongation at Break       | 720 %    | 720 %     | ASTM-D638  |
| 1% Secant Modulus         | 72.0 MPa | 10400 psi | ASTM-D638  |

| Thermal Properties    | Metric                   | English                 | Comments   |
|-----------------------|--------------------------|-------------------------|------------|
| Melting Point         | 90.0 °C                  | 194 °F                  | ASTM-D3418 |
| Vicat Softening Point | 62.0 °C<br>@Load 1.02 kg | 144 °F<br>@Load 2.25 lb | ASTM-D1525 |

| Processing Properties | Metric       | English      | Comments            |
|-----------------------|--------------|--------------|---------------------|
| Melt Temperature      | 135 - 150 °C | 275 - 302 °F | Blow Film Extrusion |
|                       | 205 - 210 °C | 401 - 410 °F | Cast Film Extrusion |

| Processing Properties | Metric            | English            | Comments                   |
|-----------------------|-------------------|--------------------|----------------------------|
| Die Opening           | 0.0800 - 0.100 cm | 0.0315 - 0.0394 in | Blow Film Extrusion        |
| Blow-up Ratio (BUR)   | 2.0 - 3.0         | 2.0 - 3.0          | Blow Film Extrusion        |
| Roll Temperature      | 25.0 °C           | 77.0 °F            | Chill, Cast Film Extrusion |

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