

## SABIC BC 111 Crystalline Polyethylene Terephthalate

Category : Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET) , Polyethylene Terephthalate (PET), Unreinforced

### Material Notes:

**Product Description:** BC 111 is a crystalline, high molecular weight thermoplastic polymer made by a continuous melt-phase polymerization process followed by solid-state polymerization. **Characteristics:** BC 111 is a specially formulated bottle grade PET that is characterized by low I.V., low acetaldehyde generation on melting. **Typical Applications:** BC 111 is especially suitable for the production of bottles for water. It can also be used for noncarbonated and other packaging applications. Information provided by SABIC.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-BC-111-Crystalline-Polyethylene-Terephthalate.php](http://www.lookpolymers.com/polymer_SABIC-BC-111-Crystalline-Polyethylene-Terephthalate.php)

| Physical Properties      | Metric                     | English                            | Comments                             |
|--------------------------|----------------------------|------------------------------------|--------------------------------------|
| Bulk Density             | 0.828 - 0.848 g/cc         | 0.0299 - 0.0306 lb/in <sup>3</sup> | ASTM D1895 S                         |
| Density                  | <= 1.39 g/cc               | <= 0.0502 lb/in <sup>3</sup>       | crystalline density; SABIC (IRC0032) |
| Viscosity Test           | 74 - 78 cm <sup>3</sup> /g | 74 - 78 cm <sup>3</sup> /g         | Intrinsic; SABIC (IRC0041)           |
| Maximum Moisture Content | <= 0.35                    | <= 0.35                            | % w/w; SABIC (IRC0050)               |

| Thermal Properties | Metric       | English      | Comments        |
|--------------------|--------------|--------------|-----------------|
| Melting Point      | 246 - 256 °C | 475 - 493 °F | SABIC (IRC0053) |

| Chemical Properties | Metric      | English     | Comments        |
|---------------------|-------------|-------------|-----------------|
| Acetaldehyde        | <= 1.00 ppm | <= 1.00 ppm | SABIC (IRC0057) |

| Descriptive Properties | Value        | Comments        |
|------------------------|--------------|-----------------|
| Color (b)              | -1.5 ± 2.0   |                 |
| Color (L)              | 89 ± 4.0     |                 |
| DEG Content            | < 1.5 % w/w  | SABIC (IRC0055) |
| Dust Content           | < 0.01 % w/w | SABIC (IRC0060) |

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