

Polyintec® BC112-TPA

Crystalline Polyethylene Terephthalate (PET) for Bottle Applications

Product Description:

Polyintec® BC112-TPA is a crystalline, high molecular weight thermoplastic PET polymer produced using a continuous melt-phase polymerization process followed by solid-state polymerization. BC112-TPA is a specially formulated bottle-grade PET resin, characterized by high Intrinsic Viscosity (I.V.) and low acetaldehyde content. The high I.V. provides excellent mechanical properties, including high burst strength and reduced bottle distension after filling.

Suggested Applications:

Bottles for carbonated drinks, Bottles for non-carbonated drinks, Edible oil bottles, Thermoformed packaging.

Nominal Physical Properties:

Property	Typical Value	Units	Test Method
Intrinsic Viscosity	0.84 ± 0.02	dl/g	(Replace with Polyintec method)
DEG Content	< 1.5	Wt. %	(Replace with Polyintec method)
Crystalline Density	< 1390	kg/m ³	(Replace with Polyintec method)
Moisture Content	< 0.35	Wt. %	(Replace with Polyintec method)
Acetaldehyde	< 1	ppm	(Replace with Polyintec method)
Color (L)	89 ± 4.0	L-value	IRC 0051 (or equivalent)
Color (b)	-1.5 ± 2.0	b-value	IRC 0051 (or equivalent)
Dust Content	< 0.01	Wt. %	(Replace with Polyintec method)
Bulk Density	850 ± 10	kg/m ³	ASTM D1895

Important Note:

The properties listed above are typical values obtained under laboratory conditions and are not intended to be used as specifications. Users should perform their own tests to determine the suitability of this product for their particular purposes. The manufacturer makes no warranty of any kind, express or implied, other than that the material conforms to applicable current standard specifications.