

POLYMERS

SABIC[®] PET HC100

Crystalline Polyethylene Terephthalate (PET)

PRODUCT DESCRIPTION:

HC100 is a crystalline, high molecular weight thermoplastic polymer made by continuous melt-phase polymerization process followed by solid-state polymerization.

CHARACTERISTICS

HC100 is a specially formulated PET grade that is characterized by high I.V. The high I.V. confers good mechanical properties.

TYPICAL APPLICATIONS:

This PET grade is especially suitable for applications such as woven tape fabric from which sacks, geotextiles, carpet backing, composites and other products can be made.

TYPICAL DATA:

PROPERTIES	Unit	Value ⁽¹⁾	Test Method
Intrinsic Viscosity	Dl/g	0.84 ± 0.02	SABIC (IRC0041)
Color (L)	-	89 ± 4.0	SABIC (IRC0051)
Color (b)	-	-1.5 ± 2.0	SABIC (IRC0051)
Melting Range	°C	240 - 260	SABIC (IRC0053)
DEG Content	% w/w	< 1.2	SABIC (IRC0055)
Crystalline Density	Kg/m ³	< 1400	SABIC (IRC0032)
Dust Content	% w/w	< 0.01	SABIC (IRC0060)
Moisture Content ⁽²⁾	% w/w	< 0.35	SABIC (IRC0050)

(1) Typical values; not to be construed as specification limits.

(2) At Equilibrium

PROCESSING CONDITIONS:

HC100 has to be dried to moisture content below about 30-40 PPM. The drying conditions typically used are 180 °C for 5 hours; the dew point of the drying air should be at least -40 °C. The PET may be extruded between 275 °C and 300 °C.

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