

## POLYMERS

# SABIC<sup>®</sup> PET HS088

Crystalline Polyethylene Terephthalate (PET)

### PRODUCT DESCRIPTION:

HS 088 is a crystalline, high molecular weight thermoplastic PET made by continuous melt-phase polymerization process followed by solid-state polymerization.

### CHARACTERISTICS

HS 088 is a PET grade characterized by High I.V. specially formulated for application that requires high stiffness. The High I.V. confers good mechanical properties; high burst strengths and tensile strength.

### TYPICAL APPLICATIONS:

HS 088 is ideal for large water disposable bottles (for water dispenser), bottles for products to be exported and needs high strength in packaging to avoid deformation due to transportation. HS 088 is suitable for strapping bands production and for other products that requires high mechanical properties.

### TYPICAL DATA:

PROPERTIES	Unit	Value <sup>(1)</sup>	Test Method
Intrinsic Viscosity	dl/g	0.90 ± 0.02	SABIC (IRC0041)
Acetaldehyde	PPM	<1	SABIC (IRC00057)
Color (L)	-	89 ± 4.0	SABIC (IRC0051)
Color (b)	-	-1.5 ± 2.0	SABIC (IRC0051)
Melting Range	°C	247 - 256	SABIC (IRC0053)
DEG Content	% w/w	< 1.5	SABIC (IRC0055)
Dust Content	% w/w	< 0.01	SABIC (IRC0060)

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

(2) At Equilibrium

### PROCESSING CONDITIONS:

The PET (HS 088) 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. Typically injection temperatures of 287 °C or higher may be used to get clear performs with acceptable acetaldehyde level of colas and flavored drinks.

## FOOD REGULATION:

HS088 is suitable for food contact application. Detailed information is provided in relevant Material Safety Datasheet; for additional specific information, please contact the local SABIC representative for certificate.

## STORAGE AND HANDLING:

PET resin should be stored in a manner to prevent direct exposure to sunlight and/or heat. The storage area should also be dry with relative humidity below 50% and temperatures preferably don't exceed 50 °C. SABIC would not give warranty to bad storage conditions which may lead to quality deterioration such as color change, bad smell and inadequate product performance. It is advisable to process PET within 6 months after delivery.

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