

A close-up photograph of a woman's face, focusing on her mouth. She is holding a blue plastic water bottle cap in her mouth, with her teeth visible. The background is a soft, out-of-focus orange and yellow gradient.

**cazeden**  
A-PET

Her lips touched  
quality today.  
Did yours?

*Hosaf*  
where quality is action

# Cazeden A PET – quality plus versatility



**Cazeden A PET** (previously referred to as T86) is a top quality thermoplastic material for injection stretch blow moulding and injection blow moulding of bottles for CSD, mineral water, edible oil, fruit juice, the pharmaceutical industry, dairy products, cosmetics and many more.

Other applications include sheet extrusion, thermoforming of extruded sheets for food packaging, as well as industrial strap extrusion.

The linear structure plus appropriate processing determine the superior physical and chemical properties of Cazeden A PET.

## The Cazeden A PET difference

Outstanding properties create the excellence and uniqueness of Cazeden A PET as a packaging medium. These properties include:

- Superb clarity and gloss;
- Toughness and impact resistance;
- Chemical resistance;
- Low gas permeation;
- Good processability;
- Good dimensional stability (low creep under load);
- Relative light weight;
- Recyclable.

## Hosaf – the preferred supplier

Hosaf offers a complete after sales service to our clients. This includes onsite technical assistance as well as testing of final products in our modern laboratories. We aim to work with our clients in both solving problems as well as promoting product development.

## Cazeden A PET – food contact approved

Cazeden A PET is chemically inert and contains no additives. Consumer goods such as bottles, made using Cazeden A PET, are completely safe in contact with food.

## Cazeden A PET is approved by:

- EC Directive 2002/72/EC and UK Statutory Instrument 1376 (1998) as amended.
- USA FDA Code of Federal Regulations (CFR21) Section 177.1630 (Polyethylene Pthalate Polymers).
- Coca-Cola.
- PepsiCo.

## Hosaf is ISO 9001:2000 certified



### Cazeden A PET – eco-friendly

Hosaf fully supports the recycling initiative in South Africa. Our state-of-the-art recycling plant, situated in Alrode, Johannesburg, recycles millions of PET bottles every year.

Currently the recycled PET is utilised in our Cape Town fibre plant for the production of fibre fill, automotive and insulation fibre types.

We continue to research alternative end uses for the material with the ultimate aim of “bottle-to-bottle” recycling.

### Physical properties of Cazeden A PET are:

Property	Test Method	Unit	Value
Tensile strength non-oriented specimen	ASTM Do38	PSI/BAR	7500 / 520
Bend creep modulus	ASTM D790	PSI/BAR	340000 / 24000
Limiting flexural stress		PSI/BAR	11000 / 750

### Thermal Properties:

Property	Test Method	Unit	Value
Glass Temp. (Tg)	DTA	°F / °C	165 / 74
Crystallite melting Point	DTA	°F / °C	500 / 260
Thermal Conductivity	ASTM C177	W/Km °K	0.21

## Cazeden A PET summed up

**Description:** White cylindrical pellets  
Size/mm - approx. 2.4 (length) x 3.0 (diameter) x 2.0 (diameter 2)

Abbrev	Parameter	Units	Specification
SV	Specific viscosity		1020 - 1100
IV	Intrinsic viscosity	dl/g	0.803 - 0.857
L*	Luminance	CIE	>80.0
b*	Yellowness	CIE	<0.5
Pc/10g	Pieces per 10g	pieces	550 - 650
BS	Black specks	BS/100g	Max 1
UV1	Fluorescent & discoloured	Chips/100g	Max 1
UV2	Fluorescent but not discoloured	Chips/100g	Max 2
CEG	Carboxylic end groups	Mmol/kg	<35
DEG	Diethylene glycol	% by wt.	1.00 - 1.40
ACA	Acetaldehyde	ppm	<1.5
	Crystallinity	% by wt.	approx. 40%
	Density	g/cm <sup>3</sup>	approx 1.40
MP	Crystalline melting point	°C	254 ± 5°C
	Moisture content	ppm	<500

### Notes

Drying Conditions: 4 - 6 hours @ 160 - 180°C

Approval: FDA, EEC, Coca-Cola and PepsiCo

Application: Injection stretch blow moulding in a one and two stage process; sheet extrusion; thermoforming & strap extrusion.

For any further information about how Cazeden A PET can add quality and value to your business, contact:

### Cape Town :

Tel: +27 21 521-2200

Fax: +27 21 521-2202

Cnr Potsdam & Sati Roads, Milnerton, 7441, RSA

Box 268, Tableview, 7439, RSA

### Durban :

Mphumezi Penny

Cel: +27 82 326 2076

Tel: +27 31 450-4111

Fax: +27 31 450-4228

149 Hime Street, Jacobs, 4052, RSA

Box 12063, Jacobs, 4026, RSA

[pennym@hosaf.co.za](mailto:pennym@hosaf.co.za)

[www.hosaf.co.za](http://www.hosaf.co.za)

*Hosaf*  
where quality is action

