

# PP

Terpolymer for CPP film

## ▶ TF400

### ● Description

**TF400** is a propylene-ethylene-butene terpolymer for casting film application. TF400 shows high stiffness, slipperiness and excellent optical property.

### ● Characteristics

- ▶ Excellent transparency & gloss
- ▶ High stiffness
- ▶ Low-temperature heat sealing
- ▶ Slipperiness and anti-blocking property

### ● Physical Properties

Typical Properties	Method (ASTM)	Unit	TF400
Melt flow index	D1238	g/10min	7
Density	D1505	g/cm <sup>3</sup>	0.91
Tensile strength at yield	D638	kg/cm <sup>2</sup>	280
Elongation at break	D638	%	>500
Flexural modulus	D790	kg/cm <sup>2</sup>	7,500
Izod impact strength at 23 °C	D256	kgcm/cm	4
Rockwell hardness	D785	R-scale	70
Heat distortion temperature	D648	°C	85

\* Data shown above are representative values for reference purposes only, and not to be construed as specifications.

\* Data performed by or on behalf of Hanwha Total [www.cn-plas.com](http://www.cn-plas.com)

## ● **Food Contact Application**

- ▶ Hanwha Total TF400 meets the FDA requirements in the Code of Federal Regulations in 21 CFR 177.1520 for food contact.
- ▶ In case you might need additional technical or regulatory information, please contact Hanwha Total Polymer Technical Service Team.

## ● **Contacts**

---

- ▶ **Product Information & Technical Services** [www.cn-plas.com](http://www.cn-plas.com)

### *Disclaimer*

*This [www.cn-plas.com](http://www.cn-plas.com) document is copyright of Hanwha Total petrochemicals Co., Ltd. Any and all information and the values in this document are typical properties for reference, not to be confused with, or regarded as specification. Customers are responsible for determining whether our products and information are suitable for their particular purpose and for ensuring that Customer's location and handling practices are in compliance with laws and regulations. HANWHA TOTAL assumes no obligation or liability for the information in this document. NO EXPRESS WARRANTIES ARE*

*GIVEN EXCEPT FOR ANY APPLICABLE WRITTEN WARRANTIES SPECIFICALLY PROVIDED BY HANWHA TOTAL. ALL IMPLIED WARRANTIES INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED. HANWHA TOTAL is entitled to alter, change or modify any of the content herein at any time without prior notice, but not under any duty to do so.*