

PP

Terpolymer for CPP film

▶ TF451

● Description

TF451 is a propylene-ethylene-butene terpolymer for aluminum metalized cast film application.

● Characteristics

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

● Physical Properties

Typical Properties	Method (ASTM)	Unit	TF451
Melt flow index	D1238	g/10min	7
Density	D1505	g/cm ³	0.91
Tensile strength at yield	D638	kg/cm ²	220
Elongation at break	D638	%	>500
Flexural modulus	D790	kg/cm ²	6,500
Izod impact strength at 23 °C	D256	kgcm/cm	9
Rockwell hardness	D785	R-scale	59
Heat distortion temperature	D648	°C	70
Melting point	Hanwha Total	°C	132

● **Food Contact Application**

- ▶ Hanwha Total TF451 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.