

PP

CSPF for film applications

▶ CF309

● Description

CF309 is a propylene-ethylene block copolymer designed for film application. Clear & soft characteristics of CF309 lead excellent impact strength/transparency balance and stress whitening resistance.

● Characteristics

- ▶ High impact strength
- ▶ High transparency & gloss
- ▶ Excellent Stress whitening resistance
- ▶ Low fish eye level

● Applications

- ▶ Protective films with high transparency for IT industry, Decoration sheet, Retort pouch

● Film(40 μ m cast film) Properties

	Test Method	Unit	CF309
Haze	ASTM D1003	%	5
Gloss (45°)	ASTM D2457	%	60

* Processing temperature: 230 °C

Data performed by or on behalf of Hanwha Total

● **Physical Properties**

Typical Properties	Method (ASTM)	Unit	CF309
Melt flow index	D1238	g/10min	5.0
Density	D1505	g/cm ³	0.91
Tensile strength at yield	D638	kg/cm ²	275
Elongation at break	D638	%	>600
Flexural modulus	D790	kg/cm ²	10,000
Izod impact strength 23 °C	D256	kgcm/cm	15
Rockwell hardness	D785	R-scale	63
Heat distortion temp.	D648	°C	103

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

● **Food Contact Application**

- ▶ Hanwha Total CF309 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**

103, Dokgot 2-ro, Daesan-eup, Seosan-si, Chungcheongnam-do,
Korea, 31900

TEL : 82-41-660-6190 FAX : 82-41-660-6189

Disclaimer

This 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.

* Data performed by or on behalf of Hanwha Total

LTE25716
2 / 2

