

HDPE

HDPE for Caps and Closures

▶ C410B

● Description

C410B is high density polyethylene with broad molecular weight distribution designed for caps for carbonated soft drinks. This grade is designed to be processed in by both injection molding and compression molding. It contains slip agent.

● Characteristics

- ▶ Good processability and mechanical property
- ▶ High environmental stress cracking resistance
- ▶ Good organoleptic property
- ▶ Application: Carbonated soft drinks

● Physical Properties

Properties	Test Method	Units	C410B
Melt flow index	ASTM D1238	g/10min	1.0
Density	ASTM D1505	g/cm ³	0.955
Tensile strength at yield	ASTM D638	kg/cm ²	240
Elongation at break	ASTM D638	%	>90
Flexural modulus	ASTM D790	kg/cm ²	7,000
Izod impact strength at 23 °C	ASTM D256	kgcm/cm	12
Izod impact strength at -20 °C	ASTM D256	kgcm/cm	6
Rockwell Hardness	ASTM D785	R Scale	40
Melting Point	Hanwha Total	°C	130
Vicat Softening Point	ASTM D1525 1kg	°C	123
E.S.C.R	ASTM D1693 (B) 50 °C, 10% Igepal	F ₅₀ , hrs	>170

Data performed by or on behalf of Hanwha Total

LTE00414

● **Food Contact Application**

- ▶ Hanwha Total C410B 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 Customer Service Team.

● **Contacts**

▶ **Product Information & Technical Services**

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