

HDPE

HDPE 5502BM

HIGH DENSITY POLYETHYLENE (HDPE)

This high molecular weight, ethylene-hexene copolymer is tailored for lightweight blow molded containers that require:

- Excellent stiffness
- Exceptional processability
- Outstanding stress crack resistance
- Durability

Physical Properties

Properties	Test Method	Typical Value	Unit
Melt Flow (230°C/2.16kg)	ASTM D1238	0.35	g/10 Min
Density	ASTM D1505	0.954	g/cm ³
Vicat Softening Temperature	ASTM D1525	127	°C
Peak Melting Temperature	Exchange Method	131	°C
Tensile Strength @ Yield	ASTM D638	29	MPa
Tensile Strength @ Break (50mm/min)	ASTM D638	20	MPa
Elongation @ Yield	ASTM D638	9	%
Flexural Modulus, 1% secant (1.3mm/min)	ASTM D790A	1,100	MPa
ESCR, Condition B (100% Igepal)	ASTM 1693B	30	h
Durometer Hardness (Shore D)	ASTM D2240	63	

The nominal properties reported herein are typical of the product, but do not reflect normal testing variance and therefore should not be used for specification purposes. Values are rounded. The physical properties were determined on compression molded specimens that were prepared in accordance with Procedure C of ASTM D4703, Annex A1.