



DATA SHEET
ALTOFLEX® HDPE 110

Description: Extra high molecular weight, ethylene-hexene copolymer for blown molded and thermoformed parts that require good melt strength, good rigidity excellent ESCR and recyclability.

Applications:

- Shipping Containers
- Pallets
- Jerry cans
- Playground equipment
- Fuel Containers
- Truck bed liners

Resin Properties	Method	Typical Value	
Density	ASTM D1505	0.948	g/cm ³
Flow rate (HLM), 190°C/21.6 kg	ASTM D1238	10.00	g/10 min
NOMINAL PHYSICAL PROPERTIES		Method	Typical Value
Tensile Strength at Yield, 2 in/min, Type IV bar	ASTM D638	25	MPa
Tensile Elongation at Break 2 in/min, Type IV bar	ASTM D638	690.0	%
Flexural Modulus, tangent - 16:1 span: depth, 0.5 in/min	ASTM D790	1,200	MPa
ESCR, condition B (100% Igepal), F50	ASTM D1693	> 600	Hrs.
Durometer Hardness, Type D (shore D)	ASTM D2240	68	
Vicat Softening Temperature, Loading 1, Rate A	ASTM D1525	125	°C
Heat Deflection Temperature, 66 psi, Method A	ASTM D648	78	°C
Brittleness Temperature, Type A, Type I specimen	ASTM D746	<-75	°C
Tensile impact, Type S, bar	ASTM D1822	190	KJ/m ²

Typical properties: These are not to be construed as specifications.

Disclaimer: Information in this document is accurate to the best of our knowledge at the date of publication. Users will determine whether the product is suitable for their use.

Effective date: 1/02/2025