

HDPE 6953

High Density Polyethylene



Overview

This high density polyethylene is an ethylene-hexene copolymer that is tailored for injection molded applications that require:

- Moderate flow
- Excellent impact strength
- Durability.

This resin meets these specifications FDA 21 CFR 177.1520(c) 3.2a, use conditions B-H per 21CFR 176.170(c).

Applications

- Industrial pails (5-gallon)
- Pail lids
- Automotive applications
- Foamed parts

Property	Value	Unit	ASTM
Melt index (condition 230°C/2.16 kg)	6	g/10 min	D 1238
Density (g/cm ³)	0.953	g/cm ³	D 792
Tensile Strength (Yield)	4100	psi	D638
Elongation (Break)	950	%	D638
Flexural Modulus	185,000	psi	D790
Durometer Hardness (Shore D)	62		D2240
Brittleness Temperature	<-103	°C	D746A
Vicat Softening Temperature	257	°C	D1525A
ESCR, Condition B (F50, 100% Igepal)	20	h	D1693