

HDPE 5945

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
- Excellent ESCR
- Good warpage resistance
- Durability.

This resin meets these specifications FDA 21 CFR 177.1520(c) 3.2a.

Applications

- Industrial parts
- Seats
- Food and household containers
- Agricultural parts

Property	Value	Unit	ASTM
Melt index (condition 230°C/2.16 kg)	5	g/10 min	D 1238
Density (g/cm ³)	0.945	g/cm ³	D 792
Tensile Strength (Yield)	3400	psi	D638
Elongation (Break)	1000	%	D638
Flexural Modulus	155,000	psi	D790
Durometer Hardness (Shore D)	62		D2240
Brittleness Temperature	<-75	°C	D746A
Vicat Softening Temperature	121	°C	D1525A
ESCR, Condition B (F50, 100% Igepal)	90	h	D1693