

Overview

HDPE HDB 502 is a blow molding grade high density polyethylene copolymer. This resin provides a good balance of stiffness and stress crack resistance.

Applications

- Drainage pipes
- Food and pharmaceutical packaging
- Containers
- Thin gauge sheets

Property	Value	Unit	ASTM
Melt index (condition 230°C/2.16 kg)	0.35	g/10 min	D 1238
Density (g/cm³)	0.954	g/cm³	D 792
Environmental Stress	30	hrs	D1693
Crack Resistance, F50	>500	hrs	D2561
Tensile Strength at Yield	4000	psi	D638
Hardness, Shore D	66		D2240
Flex Modulus	180000	psi	D790
Brittleness Temperature	< -105	°F	D746
Vicat Softening Temperature	261	°F	D1525

This resin complies with FDA regulation 21 CFR 177.1520 (c)3.1a, and may be used as articles or components of articles intended for packaging or holding food, except during cooking.