

LANUFENE[®] HDI-5005

MI 4.5

High Density Polyethylene

Density 0.950

Description

LANUFENE[®] HDI-5005 is a high density polyethylene resin intended for use primarily in injection molding applications. LANUFENE[®] HDI-5005 combines excellent environmental stress cracking resistance (ESCR) and impact strength with low warpage, excellent gloss and good moldability.

Typical Properties

Property ⁽²⁾	ASTM Method	Unit	Value ⁽¹⁾
Melt Index, 190°C, 2.16kg	D1238	g/10min.	4.5
Density, @ 23°C	D1505	g/cm ³	0.950
Ultimate Tensile Strength	D638	MPa	22
Elongation	D638	%	1,000
Notched Izod Impact	D256/A	J/m	60
Vicat Softening Temperature	D1505	°C	125
Low Temperature Brittleness	D746	°C	< -70
Environmental Stress Crack Resistance ⁽³⁾ , F ₅₀	D1693	hrs	200

1. Values are typical and should not to be interpreted as specification.
2. Test specimen prepared from compression molded sheet made according to ASTM D1926.
3. 100% Igepal Solution, 50°C, None-Slitted Specimens

Application

LANUFENE[®] HDI-5005 is recommended for injection molding applications - trash box, toys, industrial parts, and shoulder of laminated tube for toothpaste where good ESCR and impact strength are needed.

