

HI-2053 is a certified prime grade Hexene copolymer designed for INJECTION MOLDING of good performance general purpose applications. HI-2053 features medium-high flow, easy processability, good impact strength, good resistance to low temperature, glossy surfaces, good dimensional stability and good warpage resistance. HI-2053 applications include multicavity caps, closures and lids, aerosol over-caps, housewares, food storage containers, and toys. HI-2053 recommended processing temperature is 210 to 230°C. with mold @ 20 to 40°C. HI-2053 complies with FDA regulation 21CFR 177.1520 (c) 3.1(a) + 3.2(a) and with most international regulations concerning the use of Polyethylene in contact with food articles.

Typical Properties

PROPERTIES*	ASTM TEST	UNIT ENGLISH (METRIC)	NOMINAL VALUES
<u>RESIN</u>			
Melt Index	D 1238E	gr./10 min	20.0
Density	D 1505	gr./cm ³	0.953
<u>MOLDED SPECIMEN*</u>			
Tensile Strength @Yield ²	D 638	psi (MPa)	4200 (29)
Flexural Modulus ¹	D 790	psi (MPa)	178000 (1240)
Ultimate Elongation ²	D 638	%	150
Tensile Impact	D 1822	ft.lb/in. ² (kJ/m ²)	20 (42)
ESCR ³ (F50)	D 1693B	hrs.	1.5
Low temp. brittleness	D 746	°C.	<-80
Vicat softening point	D 1525	°C.	123
HDT @ 0.46 N/mm ²	D 648	°C.	75

TYPICAL VALUE OF PROPERTIES NOT TO BE CONSTRUED AS SPECIFICATIONS.

* - Test specimens from compression molded plaque according to ASTM D 1928 Procedure C.

1 - 1% secant @ 1.3 mm/min. speed.

2 - @ 50 mm/min.

3 - 100% Igepal, notched Bent Strip, 1.75 mm thick, 50°C.

*** The reported values are typical and do not constitute a warranty but a guide for the diverse application possibilities.