CERTENE®

Technical Data Sheet

HI-2053
High Density Polyethylene

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
RESIN			
Melt Index	D 1238E	gr./10 min	20.0
Density	D 1505	gr./cm^3	0.953
MOLDED SPECIMEN*			
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.

THIS PRODUCT DATA SHEET EFFECTIVE JANUARY 2001 SUPERSEDES ALL DATA PREVIOUSLY PUBLISHED

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