



TECHNICAL DATA SHEET (TDS)

HDPE IM20-54 HIGH DENSITY POLYETHYLENE

OVERVIEW: excellent balance of toughness, stress crack resistance and processability, very narrow molecular weight distribution.

Applications: Injection molding, for injection molded housewares, toys, food containers and pails

Complies with U.S FDA 21 CFR 177.1520 (C) 3.1a.

ADDITIVE: Additives: Antiblock: None Slip: None

Properties	Test Method	Units	Nominal Values
Melt Index (190° C/2.16 Kg)	ASTM D1238	g/10 min	20
Density	ASTM D792		0.954
Properties			
Tensile strength at Break	ASTM D638	Psi/MPa	2000/14
Tensile strength at Yield	ASTM D638	Psi/MPa	4100/28
Elongation at Break	ASTM D638	%	250
Elongation at Yield	ASTM D638	%	7
Flexural Modulus, 2% secant	ASTM D790B	Psi/MPa	167000/1151
Environment Stress Crack Resistance 122°F(50°),f50, 100% igepal®	ASTM D 1693	Hrs.	3
Hardness, Shore D	ASTM D2240		57
Deflection Temperature Under Load @66 psi/0.45 Mpa	ASTM D 640	°F (°C)	163(73)
Brittleness Temperature	ASTM D 746	°F (°C)	<-105(<-76)
Tensile impact Strength	ASTM D1822,TypeS	Ft,lb/in2(KJ/M ²)	20/42

Physical properties measured on compression molded specimens

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