DOW™ 17450N High Density Polyethylene Resin

For toys and housewares. Offers good low temperature impact strength, gloss and excellent toughness. This product is a narrow molecular weight distribution co

Properties

These values are not intended for use in preparing specifications.

Physical Properties

2% Secant Modulus, MD (ASTM D882) in MPa (psi)	786 (114000)
2% Secant Modulus, TD (ASTM D882) in MPa (psi)	786 (114000)
Brittleness Temperature in °C(°F)	< -76.1
Density	0.95 g/cm3
Density Range	.940-.950
ESCR-Environmental Stress Crack Resistance (100% IGEPAL)	3 hr
Functionality	Mechanical Performance
Impact Strength in MPa (psi)	294 kJ/m2 (140 ft lb/in2) ASTM D1822
Melt Index ((g/10min @ 190C/2.16kg)(ASTM D1238))	17
Structure Type	Monolayer, Multilayer
Tensile Elongation at Break, MD	300 %

Tensile Elongation at Break, TD	300 %
Tensile Strength Break, MD (ASTM D638) in MPa (psi)	12.4 (1800)
Tensile Strength Break, TD (ASTM D638) in MPa (psi)	12.4 (1800)
Tensile Strength Yield, MD (ASTM D638) in MPa (psi)	22.8 (3300)
Tensile Strength Yield, TD (ASTM D638) in MPa (psi)	22.8 (3300)

Application Benefits

Anti-block	No
Slip	No

Processing-Formulating Benefits

Process	Injection Molding

You may also be interested in the following products:

DOW™ HDPE KT 10000 UE High Density Polyethylene Resin (/content/dcc/en-us/pdp.dow-hdpe-kt-10000-ue-high-density-polyethylene-resin.42927z.html)

A UV stabilised resin with very narrow molecular weight

DOWLEX™ 2045G Polyethylene Resin (/content/dcc/en-us/pdp.dowlex-2045g-polyethylene-resin.7650z.html)

LLDPE designed for the production of a wide variety of industrial and consumer films

DOW™ LDPE 310E Low Density Polyethylene Resin (/content/dcc/en-us/pdp.dow-ldpe-310e-low-density-polyethylene-resin.118873z.html)

A fractional melt index low density polyethylene resin designed for superior

TECHNICAL CONTENT

Technical Data Sheet

Safety Data Sheet

Regulatory Data Sheets

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inquiry=Other&product=DOW%E2%84%A2+17450N+High+Density+Polyethylene+Resin)