

HD3840UA⁽¹⁾

High Density Polyethylene

DESCRIPTION

HD3840UA is high density polyethylene copolymer containing butene1-(C4) as co monomer with based on INEOS's gas phase technology. It is suitable for use as rotational molding applications.

HD3840UA have the following characteristics: good impact strength, easy to demoulding, UV stabilized, good whiteness, excellent surface finish. This grade has food contact approval.

TYPICAL APPLICATIONS

general purpose roto molded items, septic tanks, recycling tanks

TYPICAL PROPERTY VALUES

TYPICAL PROPERTIES	TYPICAL VALUES ⁽¹⁾	UNITS	TEST METHODS
PHYSICAL PROPERTIES			
Melt Flow Index (MFI) at 190 °C and 2.16 kg load	4	g/10 min	ASTM D-1238
Density	0.938	g/cm ³	ASTM D-1505
MECHANICAL PROPERTIES ⁽³⁾			
Vicat Softening Point(120°C/hr 1kg)	115	°C	ASTM D-1525
HDT(120°C/HR And 1.82MPa)	75	°C	ASTM D-648
Melting Point	132	°C	ASTM D-1525
Tensile Stress At Yield	15	MPa	ASTM D-638
Tensile Stress At Break	23	MPa	ASTM D-638
Elongation At Yield	8	%	ASTM D-638
Elongation At Break	900	%	ASTM D-638
ESCR (IGEPAL%10 F50 ,50 °C)	200	hr	ASTM D-1693
Flexural Modulus	650	MPa	ASTM D-790
Charpy Impact (Notched)	18	KJ/m ²	ASTM D-6110
Yellowness Index	-1	-	ASTM E-313
Whiteness Index	60	-	ASTM E-313

1. HD3840UA falls into the density range of MDPE. However, in order to observing the nomenclature procedure of PE plant licenser (INEOS), this grade is designated as HDPE; while it can be introduced as MD3840UA as well Grade Suffix (Additives Indication) UA: GENERAL ANTIOXIDANT AND LIGHT STABILISER