

NPC PE HD3840UA

Medium Density Polyethylene

NPC Alliance Corporation

Message:

HD3840UA is a medium density polyethylene with narrow molecular weight distribution. It is suitable for rotational molding including some injection molding applications such as technical parts and closures. HD3840UA has UV-stabilizer which offers good impact resistance, high environmental stress cracking resistance and has excellent surface finish. It is supplied in pellet form.

APPLICATIONS

Blow-molded containers up to 5 liters for packaging:

Large Tanks (up to 30,000L)

Silos

Engineering Parts

Toys

General Information	
Additive	UV Stabilizer
Features	Good Impact Resistance
	Good Surface Finish
	Good UV Resistance
	High ESCR (Stress Crack Resist.)
	Narrow Molecular Weight Distribution
Uses	Agricultural Tanks
	Closures
	Engineering Parts
	Tanks
	Toys
Forms	Pellets
Processing Method	Blow Molding
	Injection Molding
	Rotational Molding

Physical	Nominal Value	Unit	Test Method
Density	0.938	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	18.0	MPa	ISO 527-2
Tensile Strain (Break)	> 1000	%	ISO 527-2
Flexural Modulus	650	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method

Charpy Unnotched Impact Strength	20	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Peak Melting Temperature	125	°C	ASTM D2117

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