

NOVAPOL® HB-W646-UH

High Density Polyethylene

NOVA Chemicals

Message:

NOVAPOL®HB-W646-UH is a high density polyethylene material. This product is available in North America and is processed by blow molding.

NOVAPOL®The main features of the HB-W646-UH are:

High resistance to environmental stress fracture (ESCR)

hexene comonomer

Good processability

Impact resistance

chemical resistance

Typical application areas include:

container

Jars

marine applications

General Information			
Additive	Processing stabilizer		
	UV stabilizer		
Features	UV Stabilized		
	High ESCR (Stress Cracking Resistance)		
	hexene comonomer		
	Impact resistance, high		
	Workability, good		
	Good coloring		
	Good chemical resistance		
Uses	Ship application		
	Drum		
	Agricultural water tank		
	Container		
	Oil drum		
	Fuel Tank		
	Shipping container		
Forms	Particle		
Processing Method	Blow molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.946	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	6.2	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance			
100% Igepal, F50	> 1000	hr	ASTM D1693A

100% Igepal, F50	> 1000	hr	ASTM D1693B
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	24.0	MPa	ASTM D638
Tensile Elongation (Break)	840	%	ASTM D638
Flexural Modulus	1100	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	400	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -70.0	°C	ASTM D746

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