NOVA Chemicals
Polyethylene

Product Data Sheet

NOVAPOL® HB-W747-A Resin

Hexene Copolymer HDPE Blow Molding Resin

Property		ASTM (1)	Typical Values (2)			
High Load Melt Index	(3)	D 1238	8.5	g/10 min		
Density		D 792	0.946	g/cm³		
			METRIC UNITS		ENGLISH UNITS	
Molded Plaque Properties						
Yield Strength		D 638	23	MPa	3,300	psi
Elongation		D 638	830	%		
Flexural Modulus		D 790	1,200	MPa	174,000	psi
Tensile Impact		D 1822	48	J/cm²	229	ft-lb/in²
Low Temperature Brittleness Point		D 746	< -70	°C	< -94	°F
ESCR, (F_{50})	(4)	D 1693	> 1 000	h		
ESCR, (F_{50})	(5)	D 1693	> 1 000	h		
Izod Impact	(6)		4	J/cm	7	ft-lb/in

(1) Properties designated have been determined using methods which are in accordance with, or substantially in accordance with, the specified testing standards.

(2) Typical Values represent average laboratory values and are intended as guides only, not as specifications.

(3) Condition 190°C/21.6 kg.

(4) Environmental stress crack resistance, Condition A, 100% Igepal.

(5) Environmental stress crack resistance, Condition B, 100% Igepal.

(6) 3.2 mm (0.125 in) thick specimen.

Melt Index	**8.5**
Density	**0.946**

Features

- High molecular weight HDPE
- Excellent ESCR
- Impact strength
- Good processability

Additives

- Process stabilizer

Applications

- Drums
- Jerry cans
- Automotive fuel tanks
- Marine fuel tanks

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Availability

NOVAPOL HB-W747-A polyethylene resins are available in bulk hopper cars, hopper trucks, boxes, sea bulk containers, or bags. The product type and batch number are clearly marked on each container. Contact the NOVA Chemicals sales office nearest you for availability in your area.

Storage/Handling

NOVAPOL HB-W747-A resin should be stored in a clean, dry place at ambient temperatures. Prolonged or improper storage can result in deterioration of product properties. Care should be taken when handling and transferring product to prevent foreign matter contamination. The NOVA Chemicals Safety Data Sheet (SDS) contains important safety information and should be reviewed before using the product.

Processing Conditions

Comprehensive assistance with processing conditions and technology is available from NOVA Chemicals Technical Service at (403) 291-8444.

Environmental

NOVA Chemicals polyethylene resins are biologically and chemically inert, but improper disposal may present an ingestion hazard to wildlife. Where recycling of NOVA Chemicals' polyethylene resins is not possible, disposal to landfill or incineration in accordance with all applicable government laws and regulations is recommended. Please contact NOVA Chemicals Technical Service for further information on recycling and disposal of NOVA Chemicals resins.



is the SPI resin code developed for high density polyethylene to identify material type for sorting and recycling purposes.

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