

# NPC PE HD-5403GA

High Density Polyethylene  
NPC Alliance Corporation

Message:

HD-5403GA is a medium molecular weight copolymer grade with a broad molecular weight distribution. It is intended for blow molding applications that require high top load resistance and environmental stress crack resistance to meet the most demanding end use applications.

APPLICATIONS

- Blow-molded containersup to 5 liters for packaging:
- Industrial Chemicals
  - Household Chemicals
  - Foodstuffs
  - Personal Care Products

General Information			
Features	Copolymer		
	High ESCR (Stress Crack Resist.)		
	Medium Molecular Weight		
	Wide Molecular Weight Distribution		
Uses	Blow Molding Applications		
	Blown Containers		
	Industrial Containers		
	Packaging		
Processing Method	Blow Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.953	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.33	g/10 min	
190°C/21.6 kg	34	g/10 min	
Environmental Stress-Cracking Resistance (10% Igepal, F50)	20.0	hr	ASTM D1693B
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	28.0	MPa	ISO 527-2/2
Tensile Strain (Break)	> 900	%	ISO 527-2/2
Flexural Modulus	1000	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	7.0	kJ/m <sup>2</sup>	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Peak Melting Temperature	130	°C	ASTM D2117
Additional Information	Nominal Value	Unit	
Blow Molding Barrel Temperature	170 to 190	°C	
Blow Molding Die Temperature	175 to 190	°C	

Blow Molding Temperature

170 to 200

°C

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#### Recommended distributors for this material

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