

NPC PE HD-5502GA

High Density Polyethylene
NPC Alliance Corporation

Message:

HD-5502GA is a medium molecular weight copolymer grade with a broad molecular weight distribution. It offers excellent balance of environmental stress crack resistance and stiffness. This product also provides high melt strength and intrinsic toughness with good rigidity and moderate swell characteristics.

APPLICATIONS

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

General Information			
Features	Copolymer		
	Good Melt Strength		
	Good Stiffness		
	High ESCR (Stress Crack Resist.)		
	High Rigidity		
	Medium Molecular Weight		
	Wide Molecular Weight Distribution		
Uses	Blow Molding Applications		
	Blown Containers		
	Food Containers		
	Food Packaging		
	Industrial Containers		
	Packaging		
Processing Method		Blow Molding	
Physical	Nominal Value	Unit	Test Method
Density	0.953	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.23	g/10 min	
190°C/21.6 kg	26	g/10 min	
Environmental Stress-Cracking Resistance (10% Igepal, F50)	25.0	hr	ASTM D1693B
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	30.0	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	9.0	kJ/m ²	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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