

NPC PE HD-5502GA

High Density Polyethylene

NPC Alliance Corporation



Prospector

Product Description

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

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Asia Pacific
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
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

Notes

¹ Typical properties: these are not to be construed as specifications.