



High Density Polyethylene Iran Petrochemical Commercial Company (IPCC)

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East
Additive	• Antioxidant
Features	<ul style="list-style-type: none"> • Antioxidant • Crystalline • Food Contact Acceptable • Good Chemical Resistance • High Density • High ESCR (Stress Crack Resist.) • High Impact Resistance • High Molecular Weight • High Stiffness • Low Temperature Impact Resistance • Oil Resistant • Recyclable Material
Uses	<ul style="list-style-type: none"> • Blow Molding Applications • Bottles • Containers
Agency Ratings	• EEC 128/90
Forms	• Pellets
Processing Method	• Extrusion Blow Molding

Physical	Nominal Value Unit	Test Method
Specific Gravity	0.959 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.35 g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance	15.0 hr	ASTM D1693

Mechanical	Nominal Value Unit	Test Method
Tensile Strength (Break)	28.4 MPa	ASTM D638
Tensile Elongation (Break)	900 %	ASTM D638

Impact	Nominal Value Unit	Test Method
Notched Izod Impact	250 J/m	ASTM D256

Thermal	Nominal Value Unit	Test Method
Vicat Softening Temperature	126 °C	ASTM D1525
Melting Temperature	130 °C	

Additional Information

Yellow Index, ASTM D1925: -5
Ash Content, ASTM D1063: 0.06 wt%
Volatile matter, ASTM D1960: 0.05 wt%

Notes

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