



Technical Data Sheet

HBNA1 (Natural Color)

PERSIAN GULF POLYMER

Description

A post-consumer high density polyethylene (HDPE - HBNA1) offers an excellent combination of toughness, load bearing strength and processability characteristics. It is classified as a multipurpose blow molding grade. It may be blow molded into containers for household and industrial chemicals (e.g. detergents, bleach, fabric softeners, solvents, paints, etc.), automotive supplies, toiletries and cosmetics. It can also be used in other hollow thin-walled parts and profile extrusions.

Material Properties

	Value	Unit	Test Method
Physical & Mechanical Properties			
Density (23°C)	0.944	g/cm ³	ASTM D792
E-Modulus (23°C)	763	N/mm ² (MPa)	ASTM D638
Tensile Strength at Yield (23°C)	23	N/mm ² (MPa)	ASTM D638
Tensile Strength at Break (23°C)	16	N/mm ² (MPa)	ASTM D638
Hardness Shore D	61	-	ASTM D2240
Rheological			
Melt Flow Index (190 °C/2.16 kg)	0.41	g/10min	ASTM D1238
Impact			
Notched Izod Impact (23°C)	15	KJ/m ²	ASTM D256
Thermal Properties			
Vicat Softening Temperature	125	°C	ISO 306

Note:

The data above is provided in good faith and represents typical properties based on our current knowledge and experience. Product properties may be changed without notice. These properties are provided as a guide and should not be construed as binding specification limits or minimum values.

