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TOTAL PETROCHEMICALS

POLYETHYLENE
HDPE 5502

Technical data sheet
High Density Polyethylene
BLOW MOULDING

DESCRIPTION >>

HDPE 5502 is a high density polyethylene produced by the slurry loop low pressure polymerization process.

HDPE 5502 has been especially developed for the manufacturing of blow moulded bottles for diverse liquids such as household, industrial, cosmetics, food. This resin offers a very attractive compromise between end-product properties and ease of processing.

HDPE 5502 is best processed at temperatures between 180 and 220°C.

CHARACTERISTICS >>

Blow-moulding of bottles for household, industrial and cosmetics (volumes below 5 l).

Property	Method	Unit	Value
Density (23°C)	ISO 1183	g/cm³	0.954
Melt Index	ISO 1133	dg/min	
21.6 kg			20
2.16 kg			0.2
Vicat Softening Point	ISO 306	°C	127
ESCR (100 % ant.)	ASTM D1693-70	h	55
Tensile Strength	ISO 527	MPa	
at yield (50 mm/min)			27
at break (50 mm/min)			31
Elongation	ISO 527	%	
at yield (50 mm/min)			9
at break (50 mm/min)			min 700
Flexural Modulus	ISO 178	MPa	1300
Notched Tensile Impact Resistance	ISO 8256	kJ/m²	
23°C			140
- 30°C			115

TOTAL

FOOD APPROVAL >>

HDPE 5502 complies with the main regulations concerning non-toxicity of plastics materials in contact with food stuffs.

DISCLAIMER

Information contained in this publication is true and accurate at the time of publication and to the best of our knowledge. The nominal values stated herein are obtained using laboratory test specimens. Before using one of the products mentioned herein, customers and other users should take all care in determining the suitability of such product for the intended use. Unless specifically indicated, the products mentioned herein are not suitable for applications in the pharmaceutical or medical sector. The Companies within TOTAL PETROCHEMICALS do not accept any liability whatsoever arising from the use of this information or the use, application or processing of any product described herein. No information contained in this publication can be considered as a suggestion to infringe patents. The Companies disclaim any liability that may be claimed for infringement or alleged infringement of patents.

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