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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



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FOOD APPROVAL >>

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



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DISCLAIMER

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