

KOREA PETROCHEMICAL IND.CO.,LTD

HDPE **B500**
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Classification : HDPE Blow grade
 Attributes : Drawdown Resistance, Impact Resistance, Chemical Resistance
 Applications : Mid&Large Containers (Industrial Parts), Medical Supply Containers

Documents & Certificates

Spec Sheet :  [kpic_spec_B500_en.pdf](#)
 MSDS :  [kpic_msds_B500_en\(1\).pdf](#)
 FDA :  [FDA Request](#)

Properties

ITEM (TERM)	VALUE	UNIT	TEST METHOD
Melt Index	0.2	g/10min.	ASTM D1238
Density	0.958	g/cm ³	ASTM D1505
Mold Shrinkage	1.5~2.5	%	KPIC Method
Water Absorption	<0.01	%	ASTM D570
Tensile Strength at Yield	310	kgf/cm ²	ASTM D638
Elongation at Break	>500	%	ASTM D638
Flexural Modulus	10,500	kgf/cm ²	ASTM D790
Hardness (Rockwell)	50	R Scale	ASTM D785
Impact Strength (Izod with Notch)	>50	kgf cm/cm	ASTM D256
Environment Stress Cracking Resistance	40	hr.Cond.B.10%	ASTM D1693
Melting Point	134	°C	ASTM D3418
Softening Point (Vicat)	122	°C	ASTM D1525
Heat Deflection Temperature	68	°C	ASTM D648
Brittleness Temperature	< -70	°C	ASTM D746

The values given above should only be used as a guide and should not be considered as a specification or guarantee.

The values are dependent on part geometry and fabrication conditions.