

KOREA PETROCHEMICAL IND.CO.,LTD

HDPE **P502**
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Classification : HDPE Pipe grade
 Attributes : PE80, Creep Resistance, Flexibility, SCG, RCP, Color:Natural
 Applications : Gas Pipes, Drinking Water Pipes

Documents & Certificates

Spec Sheet :  [kpic_spec_P502_en\(1\).pdf](#)
 MSDS :  [kpic_msds_P502_en.pdf](#)
 FDA :  [FDA Request](#)
 Certificates : **P502 BL** :  [LTHS\(Bodycote\)](#)  [RCP-S4 Test\(Bodycote\)](#)  [SCG The Notch Pipe Test\(Bodycote\)](#)  [The resistance to gas constituent condensate test\(Bodycote\)](#)  [Australlian WQC](#)
P502 YE :  [LTHS\(Bodycote\)](#)  [RCP-S4 Test\(Bodycote\)](#)  [SCG The Notch Pipe Test\(Bodycote\)](#)  [The resistance to gas constituent condensate test\(Bodycote\)](#)

Properties

ITEM (TERM)	VALUE	UNIT	TEST METHOD
Melt Index	0.15	g/10min.	ASTM D1238
Density	0.939	g/cm ³	ASTM D1505
Water Absorption	<0.01	%	ASTM D570
Tensile Strength at Yield	195	kgf/cm ²	ASTM D638
Elongation at Break	>600	%	ASTM D638
Flexural Modulus	6,000	kgf/cm ²	ASTM D790
Hardness	58	Shore	ASTM D2240D
Impact Strength (Izod with Notch)	>50	kgf cm/cm	ASTM D256
Environment Stress Cracking Resistance	>5,000	hr.Cond.B.100%	ASTM D1693
Melting Point	130	°C	ASTM D3418
Softening Point (Vicat)	120	°C	ASTM D1525
Oxidation Induction Time at 200°C	>40	min	ASTM D3895
Heat Deflection Temperature	57	°C	ASTM D648
Brittleness Temperature	< -70	°C	ASTM D746
Thermal Expansion (Linear)	1.5	10 ⁻⁴ cm/cm °C	ASTM D696
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.			