

# KPIC

## HDPE

### P600

Product information				
Manufacturer	YUHWA Korea Petrochemical Ind. Co., Ltd.			
Color	NC			
Material Shape	Pellets			
Process	Extrusion molding			
Material Attribute	Pipe grade PE100			
Features	Creep resistance			
Application	Gas pipesHighway drainage pipePipe			
Hardness	Condition	Standard	Value	Unit
Shore	Hardness D	ASTM D2240	62	
Mechanical behavior	Condition	Standard	Value	Unit
Elongation	Break	ASTM D638	600	%
Flexural	Modulus	ASTM D790	9000	kg/cm <sup>2</sup>
Izod	Notch Impact	ASTM D256	50	kg-cm/cm
Tensile	Strength Yield	ASTM D638	230	kg/cm <sup>2</sup>
Physical property	Condition	Standard	Value	Unit
Density		ASTM D1505	0.952	g/cm <sup>3</sup>
Environmental	Stress Crack Resistance 10%Igepal	ASTM D1693	5000	hr
Melt	Index 5kg	ASTM D1238	0.22	g/10min
Water	Absorption	ASTM D570	0.01	%
Thermal	Condition	Standard	Value	Unit
HDT		ASTM D648	65	°C
Low	Temperature Brittleness	ASTM D746	-70.0	°C
Melting	Temperature	ASTM D3418	130	°C
Oxidation	Induction Time 200°C	ASTM D3895	60	min
Vicat	Softening Temperature	ASTM D1525	124	°C