

KGT HP011M is a high density polyethylene with 1-Butene as co monomer. It is Natural outstanding ESCR, high impact Strength, outstanding hydrostatic Strength for PE 100 class.

Applications

- Pipe extrusion PE 100 class
- Industrial and pressure pipe, Gas pipe, drinking water pipe, relining, fittings

Properties	Test Method	Unit	Typical Value
Mass density (23 C)	ISO 1183	g/cm ³	0.948
Melt Flow Rate (ISO 05.0kg)	ISO 1133	g/10min	0.22
Melt Flow Rate (ISO C/21.16 kg)	ISO 1133	g/10min	6.2
FRR (21.6/5)			27
Stress at Yield	ISO 527	Mpa	23
Flexural Creep Modulus (4point, 1min)	DIN 19537-2	Mpa	1050
Tensile Modulus	ISO 527	Mpa	850
Stress at Break	ISO 527	Mpa	36
Elongation at Break	ISO 527	%	>1000
Elongation at Yield	ISO 527	%	10
Softening Temperature	ISO 306	C	74
Brittle Temperature	ASTM D746-72	C	<-80
shore D hardness	ISO 868		62
ESCR in kill notch creep test	ISO CD 16770	h@4.0 Mpa	400
Impact strength (23 c)	ISO 179/1eA	Kym ²	25
S4 Test (RCP)	ISO DIS 13477	bar	PC >20
Notch Test (scG)	ISO DIS 13479	Mpa h@4.0	>1000
Hydrostatic strength	ISO 1167	Mpa h@4.6	>15000
VN		Cm ³ /g	>360
FNCT (950C, 4.0MPa)		h	>5000