



ROYAL GLOBAL ENERGY

RGE's core business Oil, Gas, Refining and Petrochemicals

Product Name: HDPE			
PROPERTY	TEST METHOD	UNIT	TYPICAL VALUE
Mass density (23 C)	ISO 1183	g/cm3	0.954
Melt Flow Rate (190 C/2.16kg)	ISO 1133	g/10min	4
Melt Flow Rate (190 C/5.0kg)	ISO 1133	g/10min	11
FRR (5/2.16)		-	2.8
Impact strength (23 C)	ISO 179/1eA	mj/mm2	3
Stress at Yield	ISO 527	Mpa	26
Flextural Creep Modulus (4point,1min)	OIN 19537-2	Mpa	1300
Tensile Modulus (23 C, v=1mm/min, secant)	ISO 527	Mpa	1100
Stress at Break	ISO 527	Mpa	30
Elongation at Break	ISO 527	%	>1000
Elongation at Yield	ISO 527	%	10
Softening Temperature	ISO 306	C	70
Brittle Temperature	ASTM D746-72	C	<-80
Shore O hardness	ISO 868		62
ESCR in full notch creep test (80 C,2%Arcopal)	ISO CD 16770 h@2.5 Mpa		3
Volatiles	ASTM D1023-94	%WT	<0.3
Contamination	-	RATING	<2