KGT Oil
Oil Gas Mine

KGT 661 - HDPE

KGT 661 is a high density polyethylene with 1-Butene as co monomer. It is high density and stiffness, good ESCR, high rigidity, good flow-ability, and impact strength.

Applications

- Small blow moulding
- Bottles
- Containers (up to 5 lit.)
- Packing of pharmaceuticals & surfactants

Resin properties	Typical Value	Unit	Test Method
Physical			
Melt Flow Rate (190 °C, 2.16kg)	0.35	g/10 min	ISO 1133
Melt Flow Rate (190 °C / 5.0 kg)	1.2	g/10 min	ISO 1133
Density	0.954	g/cm^3	ISO 1183
Mechanical			
Stress at yield	26	MPa	ISO 527
Flexural Creep Modulus (4 point, 1min)	1300	MPa	DIN 19537-2
Tensile Modulus (23ºC, v=1mm/min, Secant)	1250	MPa	ISO 527
Stress at Break	32	MPa	ISO 527
Elongation at break	600	%	ISO 527
Elongation at yield	10	%	ISO 527
Shore D hardness	62	-----	ISO 868
Impact strength (23^0C)	10	KJ/m^2	ISO 179/1eA
Swell ratio	20	%	Internal
Thermal			
Softening Temperature	77	^0C	ISO 306
Brittle Temperature	< - 80	^0C	ASTM D746-72

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