



ROYAL GLOBAL ENERGY

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

Product Name: Polyethylene Terephthalate

Properties	Value	Unit	Standard
Density	1.39	g/cm ³	ISO 1183
Moisture pick-up till saturation (in normal climate 23 °C / 50% r.h.)	0.3	%	ISO 62
Water absorption till saturation (in water at 23 °C)	0.5	%	ISO 62
Tensile stress at yield [v = 50 mm/min]	90	MPa	ISO 527-2
Tensile stress at break [v = 5 mm/min]	-	MPa	ISO 527-2
Nominal percentage elongation at break	15	%	ISO 527-2
Tensile modulus of elasticity	3600	MPa	ISO 527-2
Flexural modulus of elasticity	-	MPa	ISO 178
Ball indentation hardness (value at 30 sec.)	170	MPa	ISO 2039-1
Rockwell hardness (measured with test pieces 10 mm thick)	M 95		ISO 2039-2
Charpy impact strength (+23 °C)	>50	kJ/m ²	ISO 179/1eU
Charpy impact strength - notched (+23 °C)	3	kJ/m ²	ISO 179/1eA