



# ROYAL GLOBAL ENERGY

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

## Product Name: Acrylonitrile Butadiene Styrene

Characteristic	Condition	Test Method	Typical Value
Density		ISO 1183/B	1.06 g/cm <sup>3</sup>
Apparent Density		ISO 60	0.66 g/cm <sup>3</sup>
Melt Volume-Flow Rate (MVR)	220 °C / 10.0 kg	ISO 1133	5g / 10 min
Molding Shrinkage-Flow		ISO 294-4	0.42 to 0.72 %
Tensile Modulus	3.20 mm	ISO 527-2	2270MPa
Tensile Stress	Yield, 3.20 mm	ISO 527-2/50	46.0MPa
Tensile Strain	Yield, 3.20 mm	ISO 527-2/50	2.50%
Flexural Modulus	3.20 mm	ISO 178	2350MPa
Flexural Strength	3.20 mm	ISO 178	69.0MPa
Notched Izod Impact Strength	23 °C	ISO 180/A	19 kJ/m <sup>2</sup>
Charpy Izod Impact Strength	23 °C	ISO 170 1eA	19 kJ/m <sup>2</sup>
Heat Deflection Temperature	1.8 MPa, Unannealed	ISO 75-2/A	97 °C
Vicat Softening Temperature		ISO 306/B50	95 °C
Fogging		ISO 294-4	97%
Burning Rate	2.00 mm	ISO 75-2/A	55 mm/min
Flame Rating		UL 94	
	1.50 mm		HB
	3.00 mm		HB
Carbon Emission		VDA 277	25.0µg/g