

High Density Polyethylene

ARMCRP100B (Pipe Grade)

Main application & Characteristics:

ARMCRP100B are high molecular weight high density polyethylene copolymers, developed as general purpose resin for use in pressure and non-pressure pipes. A minimum service life of 50 years is achievable under appropriate pressure and temperature conditions. ARMCRP100B offer excellent chemical resistance and environmental stress crack resistance.

ARMCRP100B will provide excellent resistance to effects of ultra violet light exposure in outdoor applications.

ARMCRP100B are suitable for use in transport of a wide range of fluids for industrial, rural and mining applications.

Suitability for use in any application should be determined by appropriate performance testing.

* ARMCRP100B are suitable for food contact.

Typical properties	Test method	Unit	Value
MFI@190°C, 5.0Kg	ASTM 1238	gr/10min	0.22
MFI@190°C, 21.6Kg	ASTM 1238	gr/10min	6.2
FRR(21.6/5.0)	-----	-----	28
Mass Density(23°C)	ISO 1183-1	gr/cm3	0.957
Bulk Density	ASTM D D1829	gr/cm3	0.605
Carbon Black Content	ASTM D 4218	%	2.3
Carbon Black Dispersion	BS-2782	Rating	max 3
Impact Strength(charpy Index@23c°)	ISO 179/1eA	mj/mm ²	>20
Hydrostatic Strength (80°C/5.5MPa)	ISO 11677	hr	>165
Volatiles	Basel Method	ppm	349
Contamination	Hoechst Method	Rating	2
Vicat Softening Temperature, (B50)	ASTM D D1525	°C	75
Oxidation Induction Time, (210 °C)	ASTM D 3895	min	>25
DSC Melting Point	-----	°C	130
Shore Hardness, (Shore D, 3 sec)	ASTM D 2240	-----	63