

**Technical Data Sheet**

**HM –CRP 100 (Black)**  
High Density Polyethylene

"HM-CRP 100 (Black)" is a high density polyethylene (HDPE), black coloured similar RAL 9004 with high melt viscosity for extrusion, injection and compression moulding. The product is classified as PE 100 and provides excellent stress crack resistance properties(ESCR) combined with very good long term hydrostatic strength.

ARMCRP100B are high molecular weight high density polyethylene copolymers, developed as general purpose resin for use in pressure and non-pressure pipes. 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.

**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.

Properties	Value	Units	Test Method
MFR (190 °C/5Kg)	0.22	g/10 min	ASTM 1238
MFR (190 °C/21.6Kg )	6.2	g/10 min	ASTM 1238
FRR 21.6/5	28	-	-
Mass Density	0.957	g/cm <sup>3</sup>	ISO 1183
Bulk Density	0.605	g/cm <sup>3</sup>	ASTM D 1829
Carbon Black Content	2.3	%	ASTM D 4218
Carbon Black Dispersion	max 3	Rating	BS-2782
Impact Strength(charpy Index@23c°)	>20	mj/mm <sup>2</sup>	ISO 179/1 EA
Hydrostatic Strength (80°C/5.5MPa)	>165	hr	ISO 11677
Volatiles	349	ppm	Basel Method
Contamination	2	Rating	Hoechst Method
Vicat Softening Temperature, ( B50)	75	°C	ASTM D 1525
Oxidation Induction Time, (210 °C)	>25	min	ASTM D 3895
DSC Melting Point	130	°C	----
Shore Hardness, (Shore D, 3 sec)	63	-----	ASTM D 2240