



# High Density Polyethylene

## Steel Pipe Coating

### ARM PCF 55



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Typical properties	Test method	Unit	Value
MFR@ 190°C, 5 kg	ASTM D 1238	gr/10min	1.13
MFR@ 190°C, 21.6 kg	ASTM D 1238	gr/10min	22.8
MFR@ 190°C, 2.16 kg	ASTM D 1238	gr/10min	0.25
FRR (21.6/5.0)	.....	.....	20.2
Density @ 23°C	ISO1183-1	gr/cm <sup>3</sup>	0.959
Bulk Density	ASTM D 1829	gr/cm <sup>3</sup>	0.619
Powder Density	ISO1183-1	gr/cm <sup>3</sup>	0.949-0.950
Impact Strength(Charpy Index @23°C)	ISO 179/1eA	mj/mm <sup>2</sup>	12.7
Carbon Black Content	ASTM D 4218	%	2.3
Carbon Black Dispersion	BS-2782	Rating	Max 3
Volatiles	Basel Method	ppm	459
Contamination	Hoechst Method	Rating	2
Vicat Softening Temperature (B50)	ASTM D 1525	°C	123
O.I.T @ 210°C°	ASTM D 3895	Min	67.3
DSC Melting Point	.....	°C	130
Shore Hardness,(Shore D,3 Sec)	ASTM D 2240	...	63.5
Elongation @ Break	INSO 17140-1,3	%	691
Tensile Strength @ Yield	INSO 17140-1,3	Mpa	21.4
Tensile Strength @ Break	ASTM D638	Mpa	18.0
ESCR	ASTM D 1693	hr	>1000
UV Resistance & Thermal Aging	ISO 21809_1	%	N.A
Izod Impact	ASTM D 256	j/m	158.7
Flexural Modulus	ASTM D 790	Mpa	1500
Volume Resistivity	ASTM D 257	Ohm.cm	5.9*10 <sup>12</sup>
Dielectric Strength	ASTM D 149	KV/mm	44.44

➤ Values shown are typical & are not to be considered as product specifications.

**❖ Main application & Characteristics:**

ARM PCF 55 is recommended as a top coat for a three layer PE system used in. ARM PCF 55 is a high molecular weight & high density polyethylene polymer and is coloured black. ARM PCF 55 contains finely dispersed carbon black that helps to impact excellent weathering properties.



ARAK PETROCHEMICAL COMPANY



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