

Test Report Data Sheet

Material Type: MDPE

AGIPC Material Testing Lab			
Medium Density Polyethylene (Black) 9150			
Item	Result	Test Method	Unit
<i>Melt Flow Index</i>	0.5±0.1	ASTM D1238	g/10min
<i>Density</i>	0.932±0.002	ASTM D792	g/cm ³
<i>Ultimate Tensile Strength</i>	25±2	ASTM D638	N/mm ²
<i>Elongation At Break</i>	650±50	ASTM D638	%
<i>Retention of mechanical properties after aging 48hours at 100 °C</i>	95±3	ASTM D638	%
<i>Brittleness Temperature</i>	-50±10	ASTM D746	°C
<i>ESCR</i>	>24	ASTM D1693	hours
<i>OIT</i>	40±5	ASTM D3895	min
<i>Carbon Black Content</i>	2.5±0.5	ASTM D2951	hours
<i>Carbon Black Dispersion</i>	3	823A or 823B of BS 2782	---
<i>Dielectric Constant at 1 MHZ</i>	2.2±0.1	ASTM D150	---
<i>Dispersion Factor at 1 MHZ</i>	0.005±0.001	ASTM D150	---
<i>Dielectric Strength</i>	25±1	ASTM D149	Kv/mm

Application

- Sheathing communication cables