

## MF5000

## High Density Polyethylene

### Description

MF5000 is manufactured to be processed in flat yarn for tarpaulin by CSTR Slurry process technology. MF5000 is ideally suited for use in monofilament application. MF5000 offers good stretching, spinning, high strength property and melting stability.

### Application

Monofilament for Rope and Net, etc.

Properties			
Physical	Testing methods	Nominal values	
Density	ASTM D 1505	g/cm <sup>3</sup>	0.951-0.956
Melt Flow Rate	ASTM D 1238	g/10min	0.8-1.1
Mechanical			
Tensile Strength at Yield (min.)	ASTM D 638	kg/cm <sup>2</sup>	200
Tensile Strength at Break (min.)	ASTM D 638	kg/cm <sup>2</sup>	220
Elongation at Break (min.)	ASTM D 638	%	500
Flexural Modulus (min.)	ASTM D790	kg/cm <sup>2</sup>	9,000
Impact			
Izod Impact Strength (23 <sup>0</sup> C) (min.)	ASTM D256	kg cm/cm	10
Thermal			
Vicat Softening Point (min.)	ASTM D1525	<sup>0</sup> C	120
Heat distortion temperature (4.6 kg/cm <sup>2</sup> ) (min.)	ASTM D648	<sup>0</sup> C	50
Additional properties			
Rockwell Hardness (min.)	ASTM D785	R	45