

Metallocene Medium Density Polyethylene

PE-RT Type I

MELT INDEX 0.7
DENSITY 0.936

HANWHA Metallocene MDPE M3707AN is manufactured by gas phase process and designed for Pipe(heating pipe, pipe for Hot & Cold water, type I). Metallocene MDPE M3707AN is well known for its excellent Long Term Hydrostatic Strength(LTHS) and good processability. This product complies with U.S. FDA regulation 21 CFR 177.1520 (c) 2.1.

▣ **Outstanding Properties**

Excellent Long Term Hydrostatic Strength
Excellent Processability
Excellent Surface Appearance

▣ **Processing Conditions**

Temperature: 180~230°C

▣ **Additives**

Antioxidant, Polymer Processing Aid

▣ **Physical Properties**

Physical Properties	Unit	Test Method	Value
Melt Index	g/10min	ASTM D1238	0.7
Density	g/cm ³	ASTM D1505	0.936
Melting Point	°C	ASTM D2117	126
Softening Point(Vicat)	°C	ASTM D1525	124
Tensile Strength at Yield	kg/cm ²	ASTM D638	195
Tensile Strength at Break	kg/cm ²	ASTM D638	440
Elongation at Break	%	ASTM D638	800
Flexural Modulus	kg/cm ²	ASTM D790	5000
IZOD Impact Strength(Notched, 23°C)	Kg.cm/cm	ASTM D256	NB
Hardness	Shore D	ASTM D2240	60
ESCR(Condition B, F50)	hr	ASTM D1693	>10000

1. These are typical properties : not to be construed as specification.

2. The value for this property is dependent on part geometry and fabrication conditions.

