



Product Data

TITANZEX HM5000 FOR MONOFILAMENT

CHARACTER	HM5000 is a high density polyethylene for extrusion monofilament. HM5000 meets the U.S. Food and Drug Administration (FDA) criteria for food contact use as specified in 21 CFR 177.1520 (c) 3.1a & 3.2a
APPLICATIONS	Yarn, Ropes, Fishing nets.
ADVANTAGES	Excellent processability, high stiffness, high draw down capability.

<u>TYPICAL RESIN PROPERTIES</u>	<u>UNIT</u>	<u>HM5000</u> ^(a)	<u>ASTM METHOD</u> ^(b)
Melt index	g/10 min	0.8	D 1238
Density	g/cm ³	0.951	D 1505
Vicat Softening Point	°C	126	D 1525

TYPICAL MECHANICAL PROPERTIES

Tensile strength at yield	kg/cm ²	260	D 638
Tensile strength at break	kg/cm ²	390	D 638
Elongation at break	%	> 500	D 638
Stiffness (Olsen)	kg/cm ²	8000	D 747
Izod impact strength	kg·cm/cm	20	D 256
Shore hardness	D scale	62	D 2240
Stress cracking resistance (F ₅₀)	hr	30	D 1693

(a) Values shown are typical and are not to be considered as specifications.

(b) ASTM test methods are latest under the Society's current procedures.

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