HDPE

HDPE with extruded elongation

Y910A

Application

Elongation, Flat Yan, Monofilament, Fishing net

Characteristics

Excellent processability, Excellent mechanical properties, Thermal resistance stability

Physical properties

Item	Test Method	Unit	Typical Value
Melt index	ASTM D1238 (190℃,2.16kg)	g/10min	1.0
Density	ASTM D1505	g/㎤	0.956
Tensile strength(at yield)	ASTM D638	kg/㎠	250
Tensile strength(at break)	ASTM D638	kg/㎠	350
Izod Impact Strength(23℃)	ASTM D256	kg ㎝/㎝	20
Flexural modulus	ASTM D790	kg/㎠	9000
Elongation(at break)	ASTM D638	%	>500
Vicat softening point	ASTM D1525	℃	125
Rockwell hardness	ASTM D785	R scale	50

Note) Data shown above are representative values for reference purposes only, and not to be construed as specifications.

Processing conditions

Item	Unit	Typical value
Hopper unit	-	room temp.
Cylinder (supply and compression unit)	℃	180 ~ 220
Cylinder (measurement unit) and die unit	℃	230 ~ 260
stretching ratio	Times	9 ~ 12
Coolant temperature	℃	30 ~ 70

※ Actual extrusion and compression molding conditions should be appropriately selected according to facility specifications such as screw type, die design, extrusion volume, etc.

Certification

There are limitations in applying Hanwha TotalEnergies Y910A for food packaging purposes.
For further inquiries, please contact Customer Technical Service.

Contact information

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