HDPE

HDPE for Film

F120U

Application

Agricultural film, Mulching film

Characteristics

Excellent mechanical properties, Excellent processability, Weather resistance, Low Fisheye, Die build-up

Physical properties

Item	Test Method	Unit	Typical Value
Melt index	ASTM D1238	g/10min	0.05
Density	ASTM D1505	g/㎤	0.956
Tensile strength (at yield)	ASTM D638	kg/㎠	230
Tensile strength(at break)	ASTM D638	kg/㎠	300
Elongation (at break)	ASTM D638	%	>500
Flexural modulus	ASTM D790	kg/㎠	10000
Brittleness temperature	ASTM D746	℃	<-80

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

Film properties

Item	Test Method	Unit	Typical value
Tensile strength at break (MD)	ASTM D882	kg/㎠	650
Tensile strength at break (TD)	ASTM D882	kg/㎠	550
Elongation at break (MD)	ASTM D882	%	440
Elongation at break (TD)	ASTM D882	%	640
Elmendorf tear strength (MD)	ASTM D1922	kg/㎠	7
Elmendorf tear strength (TD)	ASTM D1922	kg/㎠	260
Dart drop impact strength	ASTM D1709	g	> 200

Note) The above data is a representative value of the guide material and can be changed according to the processing conditions with a Φ50mm extruder, expansion ratio of 5.0, and thickness of 20 μm.

Certification

There are limitations in applying Hanwha TotalEnergies F120U for food packaging purposes. For further inquiries, please contact Customer Technical Service.

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