HDPE

HDPE for blow molding

B235A

Application

Blow molding, Chemicals, Food container, Medium/large container

Characteristics

High impact strength, Excellent mechanical properties, Excellent surface properties, Stress-cracking resistance

Physical properties

Item	Test Method	Unit	Typical Value
Melt index	ASTM D1238	g/10min	0.18
Density	ASTM D1505	g/㎤	0.959
Tensile strength (at yield)	ASTM D638	kg/㎠	320
Tensile strength (at break)	ASTM D638	kg/㎠	430
Elongation (at break)	ASTM D638	%	>500
Izod impact strength (23℃)	ASTM D256	kg ㎝/㎝	NB
Flexural modulus	ASTM D790	kg/㎠	12,000
Vicat softening point	ASTM D1525	℃	128
Melt temperature	HTC Method	℃	132
Brittleness temperature	ASTM D746	℃	<-80
Environmental Stress Cracking Resistance	ASTM D1693	(F50)	190
Rockwell hardness	ASTM D785	R scale	60

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)	℃	140 ~ 170
Cylinder (measurement unit) and die unit	℃	160 ~ 200

The actual temperature depends on the design of the screw and die, the size and thickness of the molded article, and the amount of extrusion during processing. In particular, when processed at a temperature above 220°C, the physical properties are greatly degraded due to the characteristics of hollow molded products that use a lot of scraps, so please be careful.

Certification

Hanwha TotalEnergies Petrochemical B235A satisfies the 21 CFR 177.1520 regulations, the food packaging standards of the U.S. Food and Drug Administration(FDA). For further inquiries, please contact Customer Technical Service.

Contact information

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