

Classification HIPS > General Purpose

Characteristics Cold resistance extrusion

Applications Refrigerator inner liners, Door liners, Disposable cups,
Food packing, Wrapping films, Trays,

Test Item	ASTM	Test Condition	Unit	Typical Property
Tensile Strength	D638	23℃	kg/cm ² (psi)	300(4,260)
Elongation	D638	50mm/min	%	40.0
Flexural Strength	D790	23℃	kg/cm ² (psi)	350 (4,970)
Flexural Modulus	D790	23℃	kg/cm ² (psi)	17,500 (248,500)
Rockwell Hardness	D785	M scale	—	64
IZOD Impact Strength	D256	3.2mm, Notched, 23℃ (73°F)	kg·cm/cm (ft·lb/in)	10.0 (1.85)
Heat Distortion Temp.	D648	18.6kg/cm ² (264psi), unannealed	℃ (°F)	80 (176)
Vicat Softening Temp.	D1525	—	℃ (°F)	97 (207)
Melt Flow Index	D1238	200℃, 5.0kg	g/10min	4.5
Mold Shrinkage	D955		%	0.3~0.6
Specific Gravity	D792		g/cc	1.04
Water Absorbtion	D570	24hr, Immersion in water	%	0.05
Flammability	UL*	1/16" (1.6mm)	Rating	HB

*) UL File No.E65424 (CSA File No. LS66457)

Note1) These are typical property values, not specification.

Note2) In case of colored products, the values could slightly differ by color.

Note3) Values are measured at 23℃ and in RH of 50% on injection molded specimens.