

EXCELLEN® GMH GH030

Polyethylene
Sumitomo Chemical Asia

Message:

Applications For sealant film, greenhouse film, sheet, shoe sole, tube, pipe, etc.

Characteristics High mechanical strength, impact resistance, easy processing, seal strength, high speed processing. GH030 is additives free.

General Information			
Features	High strength		
	Impact resistance, good		
	Workability, good		
	Fast molding cycle		
	No additive		
Uses	Films		
	Piping system		
	Pipe fittings		
	Sealant		
	Foam		
	Sheet		
	Footwear		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.2a		
Forms	Particle		
Processing Method	Blow film		
	Foam treatment		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.912	g/cm ³	JIS K7112
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.50	g/10 min	JIS K6922-1
Environmental Stress-Cracking Resistance	> 1000	hr	JIS K6760-1981
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	49		JIS K7215
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	30.0	MPa	JIS K7113
Tensile Elongation (Break)	850	%	JIS K7113
Flexural Modulus	130	MPa	ASTM D747-70
Films	Nominal Value	Unit	Test Method
secant modulus			Internal method
1% secant, MD	110	MPa	Internal method

1% secant, TD	130	MPa	Internal method
Tensile Strength			JIS K6781
MD: Fracture	32.0	MPa	JIS K6781
TD: Fracture	34.0	MPa	JIS K6781
Tensile Elongation			JIS K6781
MD: Fracture	550	%	JIS K6781
TD: Fracture	710	%	JIS K6781
Dart Drop Impact	74	g	ASTM D1709A
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength	1160	kJ/m ²	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	90.0	°C	JIS K7206 ¹
Melting Temperature	102	°C	DSC
Optical	Nominal Value	Unit	Test Method
Gloss (45°)	115		JIS K7105
Haze	4.0	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Die Temperature	150 - 170	°C	
Extrusion instructions			
Die Gap: Recommended 2.5)			
NOTE			

1. 压力1 (10N)

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