

Product Data Sheet

SUMITOMO POLYETHYLENE EXCELLEN® GMH

GH030

Easy Processing Polyethylene (EPPE), Blown Film and Foam

Applications	For sealant film, greenhouse film, shoe sole, tube, pipe, etc.
Characteristics	High mechanical strength, impact resistance, easy processing, seal strength, high speed processing. GH030 is additive free.
Typical Processing Conditions	Die temperature : 150°C - 170°C Die gap : recommended <1.5mm Blow-up ratio : 2 - 3 (recommended >2.5)

Typical Properties

Physical		Value	Unit	Method
Melt Index	2.16kg	0.5	g/10min	JIS K6922-1 K7210
Density		0.912	g/cm ³	JIS K7112
Mechanical		Value	Unit	Method
Tensile Strength at Break		30	MPa	JIS K7113
Tensile Elongation at Break		850	%	JIS K7113
Flexural Modulus		130	MPa	ASTM D747-70
Tensile Impact		1160	kJ/m ²	ASTM D1822-61T
Shore Hardness-D		49		JIS K7215
ESCR		>1000	h	JIS K6760-1981
Thermal		Value	Unit	Method
Vicat Softening Temperature	10N	90	°C	JIS K7206
Melt Temperature		102	°C	DSC
Film		Value	Unit	Method
Tensile Strength at Break	MD / TD	32 / 34	MPa	JIS K6781
Tensile Elongation at Break	MD / TD	545 / 710	%	JIS K6781
Tensile Modulus, 1% Secant	MD / TD	110 / 130	MPa	Sumika
Dart Drop Impact		74	kJ/m	ASTM D1709A
Haze		4	%	ASTM D1003
Gloss	45°	115	%	JIS K7105

The values shown are typical values measured on the product and are not to be considered as guaranteed specifications, actual test results may vary.
Blown film processing condition : extruder ø30mm, die ø50mm, die gap 0.8mm, temperature 170°C, output 5.5kg/hr, blow-up ratio 1.8, thickness 50µm.



Manufacturer

GH030 is manufactured by Sumitomo Chemical Company, Ltd (SCC) and packed in SCC identifiers. Sumitomo Chemical Company is an ISO 9001 certified company.

Food Contact Application

Unmodified GH030 complies with the US FDA Regulation 21 CFR 177.1520 for use in direct contact with food. Please contact your nearest SCA representative for more information.

Restriction of Hazardous Substances

The substances regulated under EU Directive 2002/95/EC on RoHS in electrical and electronic equipment are not used in the manufacturing process of GH030 and are therefore not expected to be present.

Storage and Handling

GH030 is supplied in 25kg paper bags. It is advisable to store in a well ventilated storage facility, protected from rain, direct exposure to sunlight, temperature, and dust.

Moisture may accumulate inside the packaging if there is a significant fluctuation in ambient temperature and high relative humidity. If this occurs, customer is strongly advised to dry the resin prior to use. Direct exposure to sunlight and excessive ambient temperature may affect the properties, appearance, and odor characteristic of the resin.

Please refer to the Safety Data Sheet (SDS) for information regarding industrial health and safety issues.

Disposal and the Environment

SCA prioritizes environmental management in all our operations in responsibility and respect towards the community and the environment.

Unmodified GH030 is readily recyclable, both for reuse via reprocessing and for energy reclamation through incineration. If disposed in landfills, our products, which are inert materials, do not pose pollution risks since they do not generate gaseous or liquid emissions.

