

Product Data Sheet

SUMITOMO POLYETHYLENE HDPE

M8060

High Density, Injection Molding

Applications	For technical parts with moderate ESCR requirements, cartridges, storage containers, stacking crates, pallets, and closures.
Characteristics	High stiffness and rigidity with good impact, and stress crack resistance.
Typical Processing Conditions	Extrusion temperature : 160°C - 220°C Mould temperature : 15°C - 40°C

Typical Properties

Physical		Value	Unit	Method
Melt Index	2.16kg	8	g/10min	ASTM D1238
Density		0.960	g/cm ³	ASTM D792-A
Mechanical		Value	Unit	Method
Tensile Strength	at Yield	29	MPa	ASTM D638
	at Break	16	MPa	ASTM D638
Tensile Elongation	at Break	760	%	ASTM D638
Izod Impact, Notched	23°C	3	kJ/m ²	ASTM D256
Shore Hardness-D		68		ASTM D2240
Thermal		Value	Unit	Method
Vicat Softening Temperature	10N	127	°C	ASTM D1525
Other		Value	Unit	Method
ESCR, Igepal 10 vol.% solution		5	h	ASTM D1693

The values shown are typical values measured on the product and are not to be considered as guaranteed specifications, actual test results may vary
Test pieces preparation condition : as per ASTM D4976



Manufacturer

M8060 is manufactured in Saudi Arabia by Rabigh Refining & Petrochemical Co. (Petro Rabigh). Petro Rabigh is an ISO 9001, ISO 14001, and OHSAS 18001 certified company.

Food Contact Application

Unmodified M8060 complies with the requirements of,

- US FDA Regulation 21 CFR 177.1520 and its amendments
- Regulation (EC) 1935/2004/EC (Framework), EU Commission Regulation 10/2011 (PIM), Commission Regulation (EC) No.2023/2006 (GMP), and their respective amendments

Please contact your nearest SCA representative for more information.

Restriction of Hazardous Substances

The substances regulated under EU Directive 2011/65/EC on RoHS in electrical and electronic equipment are not used in the manufacturing process of M8060 and are therefore not expected to be present.

Storage and Handling

M8060 is supplied in 25kg bags or in bulk containers depending on packaging options available for different markets. 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 M8060 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.

