

Provisional Product Data Sheet

SUMITOMO POLYETHYLENE HDPE

B2555

High Density, Blow Molding

Applications	For small to medium sized containers for household and industrial chemicals, toiletries and cosmetics tubes, automotive supplies, etc.		
Characteristics	High rigidity, good flowability, and stress cracking properties.		
Typical Processing Conditions	Melt Temperature	180 – 200°C	
	Mold Temperature	15 – 40°C	

Typical Properties

Physical		Value	Unit	Method
Melt Index	2.16kg	0.25	g/10min	ASTM D1238
	5kg	1.2	g/10min	ASTM D1238
Density		0.955	g/cm ³	ASTM D792-A
Mechanical		Value	Unit	Method
Tensile Strength	at Yield	28	MPa	ASTM D638
	at Break	35	MPa	ASTM D638
Tensile Elongation	at Break	740	%	ASTM D638
Flexural Modulus		1200	MPa	ASTM D790A
Tensile Impact		195	kJ/m ²	ASTM D1822
Izod Impact, Notched	23°C	12	kJ/m ²	ASTM D256
	-30°C	6	kJ/m ²	ASTM D256
Shore Hardness-D		69		ASTM D2240
ESCR, Igepal 10 vol.% solution		63	h	ASTM D1693B
Thermal		Value	Unit	Method
Vicat Softening Temperature	10N	126	°C	ASTM D1525A
Melt Temperature		133	°C	DSC
Brittleness Temperature		< -50	°C	ASTM D746

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 D 4976 and ISO 1872-2.

Manufacturer

B2555 is manufactured in Saudi Arabia by Rabigh Refining & Petrochemical Co. (Petro Rabigh).

Food Contact Application

Unmodified B2555 complies with the US FDA Regulation 21 CFR 177.1520 as well as with the EU Directive 2002/72/EC and its amendments 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 B2555 and are therefore not expected to be present.

Storage and Handling

B2555 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 Material Safety Data Sheet (MSDS) 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 world around us.

Unmodified, our polypropylene and polyethylene products are 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.

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Disclaimer

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