SABIC® HDPE M80063S

HIGH DENSITY POLYETHYLENE

DESCRIPTION

SABIC HDPE M80063S is an UV stabilized high density polyethylene resin with very narrow molecular weight distribution. It was developed to impart excellent stiffness, combined with good impact strength to injection molded parts.

TYPICAL APPLICATIONS

- Cases and boxes for industrial parts.
- Farm produce and beverage crates.
- Pails and buckets.

TYPICAL PROPERTY VALUES

Revision 20220721

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES [1]			
Melt Flow Rate (MFR)			
at 190°C and 2.16 kg	8.0	g/10 min	ASTM D1238
Density			
Density	0.964	g/cm³	ASTM D792
MECHANICAL PROPERTIES [1]			
Tensile test [1] [2]			
Tensile Strength @ Yield	25	MPa	ASTM D638
Tensile Strength @ Break	27	MPa	ASTM D638
Tensile Elongation @ Break	426	%	ASTM D638
Flexural Modulus	864	MPa	ASTM D790
Izod Impact, notched, 23°C	84	J/m	ASTM D256
Hardness Shore D	53	-	ASTM D2240
ESCR [3]	2	Hrs	ASTM D1693
THERMAL PROPERTIES			
Vicat Softening Temperature [1] [2]			
Vicat softening temperature	128	°C	ASTM D1525

(1) Typical values: not to be construed as specification limits.
(2) Based on Injection molded specimens
(3) Based on compression molded sheet

PROCESSING CONDITIONS

Typical processing conditions for M80063S are:

Barrel temperature: 200°C-250°C

Mold temperature: 15-60°C

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STORAGE AND HANDLING

Polyethylene material should be stored in a manner to prevent a direct exposure to sunlight and/or heat. The storage area should also be dry and preferably don't exceed 50°C. SABIC would not give warranty to bad storage conditions which may lead to quality deterioration such as color change, bad smell and inadequate product performance. It is advisable to process PE resin within 6 months after delivery.

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