

PRODUCT NAME: HDPE M80064S

Supplier: SABIC®

Product Identification & Description

M80064S is a UV stabilized, High Density Polyethylene injection molding grade with a narrow molecular weight distribution. It is typically used for injection molding applications where rigidity, toughness and warp resistance are required. Typical moulding conditions for SABIC® HDPE M80064S are: This product is not intended for and must not be used in any pharmaceutical/medical applications.

Typical Applications

M80064S is typically used for injection molded cases, crates, trays, industrial pails and other similar items.

Physical Properties

Property	Typical Values	Units	Test Methods
Density/Specific Gravity	964	kg/m ³	ASTM D1505
Melt Flow Rate (MFR) at 190°C and 2.16 kg	8	g/10 min	ASTM D1238

Mechanical Properties

Property	Typical Values	Units	Test Methods
1% Secant Modulus	950	Mpa	ASTM D638
Tensile Strength at Yield	26	Mpa	ASTM D638
Tensile Strength at Break	18	Mpa	ASTM D638
Tensile Elongation at Break	>800	%	ASTM D638
Flexural Strength	42	Mpa	ASTM D790
Flexural Modulus	1650	Mpa	ISO 178/1A
Izod Impact Strength	75	J/m	ASTM D256
Hardness (Shore D)	62	-	ASTM D2240
ESCR (100% Igepal), F50	3	Hrs	ASTM D1693B
ESCR (10% Igepal), F50	2	Hrs	ASTM D1693B

Thermal Properties

Property	Typical Values	Units	Test Methods
Vicat softening temperature	125	°C	ASTM D1525
Brittleness Temperature	<-75	°C	ASTM D746

Processing Conditions

Typical processing conditions for M80064S are:

Melt temperature: 200 - 250°C

Mold temperature: 15 - 60°C

Injection pressure: 600 - 1000 Bar

Storage and Handling

Polyethylene resin should be stored in a manner to prevent direct exposure to sunlight and/or heat. The storage area should also be dry and preferably do not 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 polyethylene resin within 6 months after delivery.

DISCLAIMER

The information contained herein may include typical properties of our products or their typical performances when used in certain typical applications. Actual properties of our products, in particular when used in conjunction with any third party material(s) or for any non-typical applications, may differ from typical properties. It is the customer's responsibility to inspect and test our product(s) in order to satisfy itself as to the suitability of the product(s) for its and its customers particular purposes. The customer is responsible for the appropriate, safe and legal use, processing and handling of all product(s) purchased from us. Nothing herein is intended to be nor shall it constitute a warranty whatsoever, in particular, warranty of merchantability or fitness for a particular purpose.

Revision: This datasheet replaces all previous versions. **Revision Date:** Mar 2026