

# SABIC® HDPE M80064S

## HIGH DENSITY POLYETHYLENE

## **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.

## **TYPICAL PROPERTY VALUES**

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMED PROPERTIES			
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 190°C and 2.16 kg	8	g/10 min	ASTM D1238
Density at 23°C <sup>(1)</sup>	964	kg/m³	ASTM D1505
MECHANICAL PROPERTIES			
1% Secant Modulus <sup>(2)</sup>	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	ASTM D790
Izod Impact Strength	75	J/m	ASTM D256
Hardness (Shore D)	62	-	ASTM D2240
ESCR (100% Igepal), F50 <sup>(3)</sup>	3	Hrs	ASTM D1693B
ESCR (10% Igepal), F50	2	Hrs	ASTM D1693B
THERMAL PROPERTIES			
Vicat Softening Point	125	°C	ASTM D1525
Brittleness Temperature	<-75	°C	ASTM D746

(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 M80064S are:

Melt temperature: 200 - 250°C Mold temperature: 15 - 60°C Injection pressure: 600 - 1000 Bar