

SABIC[®] M80064S

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.

Physical Properties	Metric	English	Comments
Density	0.964 g/cc	0.0348 lb/in ³	ASTM D1505

ESCR 100% Igepal[®]

3.0 hour

3.0 hour

F50; Based on compression molded sheet.; ASTM D1693B

ESCR 10% Igepal[®]

2.0 hour

2.0 hour

F50; ASTM D1693B

Melt Flow

8.0 g/10 min
@Load 2.16 kg,
Temperature 190 °C

8.0 g/10 min
@Load 4.76 lb,
Temperature 374 °F

ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	62	62	ASTM D2240

Tensile Strength at Break

18.0 MPa

2610 psi

ASTM D638

Tensile Strength, Yield

26.0 MPa

3770 psi

ASTM D638

Elongation at Break

>= 800 %

>= 800 %

ASTM D638

Flexural Strength

42.0 MPa

6090 psi

ASTM D790

Flexural Modulus

1.65 GPa

239 ksi

ASTM D790

1% Secant Modulus

950 MPa

138000 psi

Based on Injection molded specimens.; ASTM D638

Izod Impact, Notched

0.750 J/cm

1.41 ft-lb/in

ASTM D256

Thermal Properties	Metric	English	Comments
Vicat Softening Point	125 °C	257 °F	ASTM D1525

Brittleness Temperature

<= -75.0 °C

<= -103 °F

ASTM D746