

SABIC® M40060S

SABIC® HDPE M40060S is a UV stabilized, High Density Polyethylene copolymer injection molding grade with a narrow molecular weight distribution. Articles produced from this grade typically show good rigidity, good impact strength, low warpage, stress crack resistance (ESCR) and good gloss.
Information provided by SABIC

Physical Properties	Metric	English	Comments
Density	0.960 g/cc	0.0347 lb/in³	ASTM D1505

ESCR 100% Igepal®

6.0 hour

6.0 hour

F50; Based on compression molded sheet.; ASTM D1693B

ESCR 10% Igepal®

3.0 hour

3.0 hour

F50; ASTM D1693B

Melt Flow

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

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

ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	60	60	ASTM D2240

Tensile Strength at Break

22.0 MPa

3190 psi

ASTM D638

Tensile Strength, Yield

24.0 MPa

3480 psi

ASTM D638

Elongation at Break

>= 600 %

>= 600 %

ASTM D638

Flexural Strength

24.0 MPa

3480 psi

ASTM D790

Flexural Modulus

0.900 GPa

131 ksi

ISO 178/1A

1% Secant Modulus

950 MPa

138000 psi

Based on Injection molded specimens.; ASTM D638

Izod Impact, Notched

1.80 J/cm

3.37 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