

SABIC[®] M200056

M200056 is a High Density Polyethylene grade with narrow molecular weight distribution suitable for injection molding applications. It has been designed to give good flow properties, low warp age with good dimensional stability and high gloss.
Information provided by SABIC

Physical Properties	Metric	English	Comments
Density	0.956 g/cc	0.0345 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

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

20 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

12.0 MPa

1740 psi

ASTM D638

Tensile Strength, Yield

24.0 MPa

3480 psi

ASTM D638

Elongation at Break

>= 200 %

>= 200 %

ASTM D638

Flexural Strength

23.0 MPa

3340 psi

ASTM D790

Flexural Modulus

0.825 GPa

120 ksi

ISO 178/1A

1% Secant Modulus

800 MPa

116000 psi

ASTM D638

Izod Impact, Notched

0.300 J/cm

0.562 ft-lb/in

Based on Injection
molded specimens.;
ASTM D256

Thermal Properties	Metric	English	Comments
Vicat Softening Point	124 °C	255 °F	ASTM D1525
Brittleness Temperature	<= -75.0 °C	<= -103 °F	ASTM D746