

SABIC® M200024

SABIC® LLDPE M200024 is a linear low density polyethylene copolymer injection moulding grade with a narrow molecular weight distribution. It has been typically designed to have good low temperature toughness, stress crack resistance (ESCR) and gloss.

Physical Properties	Metric	English	Comments
Density	0.924 g/cc	0.0334 lb/in ³	Test specimens are prepared from compression moulded sheet made according to ASTM D 1928 Procedure C.; 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; Based on compression molded sheet.; 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	50	50	ASTM D2240
Tensile Strength at Break	12.0 MPa	1740 psi	Based on injection molded specimens.; ASTM D638
Tensile Strength, Yield	10.0 MPa	1450 psi	Based on injection molded specimens.; ASTM D638
Elongation at Break	>= 500 %	>= 500 %	Based on injection molded specimens.; ASTM D638
Flexural Strength	9.00 MPa	1310 psi	ASTM D790
Flexural Modulus	0.200 GPa	29.0 ksi	ASTM D790
1% Secant Modulus	230 MPa	33400 psi	Based on injection molded specimens.; ASTM D638
Izod Impact, Notched	5.00 J/cm	9.37 ft-lb/in	ASTM D256
Thermal Properties	Metric	English	Comments
Vicat Softening Point	92.0 °C	198 °F	ASTM D1525
Brittleness Temperature	<= -75.0 °C	<= -103 °F	ASTM D746