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SABIC® M500026

M500026 is a Linear Low Density Polyethylene grade with narrow molecular weight distribution suitable for injection molding applications. It has been designed to give excellent flow properties with better low temperature toughness, stress crack resistance and gloss.

Physical Properties	Metric	English	Comments
Density	0.926 g/cc	0.0335 lb/in³	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	50 g/10 min @Load 2.16 kg, Temperature 190 °C	50 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	8.00 MPa	1160 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	>= 350 %	>= 350 %	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	240 MPa	34800 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	88.0 °C	190 °F	ASTM D1525
Brittleness Temperature	<= -75.0 °C	<= -103 °F	ASTM D746