

SABIC® HDPE M75056F

HIGH DENSITY POLYETHYLENE

DESCRIPTION

M75056F is a butene-1 copolymerized medium flow high density polyethylene with a good balance between toughness and stiffness performances. It is intended for injection molded articles for general uses.

TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Flexural Modulus ⁽¹⁾	660	MPa	ASTM D790
PHYSICAL			
Density	0.956	g/cm ³	ASTM D792
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
@ 190°C & 2.16 kg load	7.5	g/10 min	ASTM D1238
MECHANICAL PROPERTIES⁽¹⁾			
Tensile Strength at Yield	24	MPa	ASTM D638
Tensile Strength at Break	12	MPa	ASTM D638
Izod Impact @ 23oC	62	J/m	ASTM D256
Hardness (Shore D)	57	-	ASTM D2240
ESCR (10% Igepal), F50 ⁽²⁾	3.1	Hrs	ASTM D1693B
THERMAL PROPERTIES			
*Melting point	131	°C	SABIC method
Vicat Softening Point	126	°C	ASTM D1525

(1) Mechanical properties tests based injection molding bars

(2) ESCR tests based on compress molding bars