

# 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
<b>MECHANICAL</b>			
Flexural Modulus <sup>(1)</sup>	660	MPa	ASTM D790
<b>PHYSICAL</b>			
Density	0.956	g/cm <sup>3</sup>	ASTM D792
<b>POLYMER PROPERTIES</b>			
<b>Melt Flow Rate (MFR)</b>			
@ 190°C & 2.16 kg load	7.5	g/10 min	ASTM D1238
<b>MECHANICAL PROPERTIES <sup>(1)</sup></b>			
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 <sup>(2)</sup>	3.1	Hrs	ASTM D1693B
<b>THERMAL PROPERTIES</b>			
*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