

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

Revision 20220721

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

APPLICATIONS

Typical applications include crates, pallets, containers, bins and housewares.

MEDICAL & FOOD REGULATION

The grades are not intended for and must not be used in any pharmaceutical / medical applications.

STORAGE AND HANDLING

The resin should be stored in a manner to prevent a direct exposure to sunlight and / or heat. The storage area should also be dry and preferably do not exceed 50°C. SABIC would not give warranty to bad storage conditions that may lead to quality deterioration such as color change, bad smell and inadequate product performance. It is advisable to process PE resin within 6 months after delivery.

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