

POLYMERS

SABIC[®] HDPE Injection Molding M300054

PRODUCT DESCRIPTION

M300054 is High Density Polyethylene grade with narrow molecular weight distribution suitable for injection molding applications. It has been designed to give good flow properties, low warpage with good dimensional stability and high gloss.

TYPICAL APPLICATIONS

M300054 is recommended for housewares, small containers, caps, cups & tubs and various thin wall articles.

TYPICAL DATA

PROPERTIES	Unit	Value ⁽¹⁾	Test Method
Melt Flow Rate			
@ 190°C & 2.16 kg load	g/10 min	30	ASTM D 1238
Density @ 23°C	Kg/m ³	954	ASTM D 1505
MECHANICAL PROPERTIES ⁽²⁾			
1% Secant Modulus	MPa	750	ASTM D 638
Tensile Strength @ Yield	MPa	23	ASTM D 638
Tensile Strength @ Break	MPa	12	ASTM D 638
Tensile Elongation @ Break	%	200	ASTM D 638
Flexural Strength	MPa	22	ASTM D 790
Flexural Modulus	MPa	800	ASTM D 790
Izod Impact	J/m	28	ASTM D 256
Hardness (Shore D)	-	60	ASTM D 2240
ESCR (100% Igepal), F50*	Hrs	<1	ASTM D 1693B
ESCR (10% Igepal), F50*	Hrs	<1	ASTM D 1693B
THERMAL PROPERTIES			
Vicat Softening Point	°C	121	ASTM D 1525
Brittleness Temperature	°C	< -75	ASTM D 746

(1) Typical values: not to be construed as specification limits.

(2) Based on Injection molded specimens.

*Based on compression molded sheet