

POLYMERS

SABIC[®] HDPE Injection Molding M40053S

PRODUCT DESCRIPTION

M40053S is UV stabilized High Density Polyethylene grade with narrow molecular weight distribution suitable for injection molding applications. It has been designed to provide good balance of stiffness and impact at low temperatures and is also having good weatherability and surface properties.

TYPICAL APPLICATIONS

M40053S is specially developed for high demanding dust bin market, shipping containers for low temperature storage, industrial pails etc.

TYPICAL DATA

PROPERTIES	Unit	Value ⁽¹⁾	Test Method
Melt Flow Rate			
@ 190°C & 2.16 kg load	g/10 min	4	ASTM D 1238
Density @ 23°C	Kg/m ³	953	ASTM D 1505
MECHANICAL PROPERTIES ⁽²⁾			
1% Secant Modulus	MPa	900	ASTM D 638
Tensile Strength @ Yield	MPa	23	ASTM D 638
Tensile Strength @ Break	MPa	21	ASTM D 638
Tensile Elongation @ Break	%	>800	ASTM D 638
Flexural Strength	MPa	21	ASTM D 790
Flexural Modulus	MPa	800	ASTM D 790
Izod Impact	J/m	150	ASTM D 256
Hardness (Shore D)	-	60	ASTM D 2240
ESCR (100% Igepal), F50*	Hrs	7	ASTM D 1693B
ESCR (10% Igepal), F50*	Hrs	4	ASTM D 1693B
THERMAL PROPERTIES			
Vicat Softening Point	°C	125	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