

M40053S

HDPE for Injection Molding

SABIC® HDPE M40053S is especially developed for the high demanding dustbin market. It is an excellent UV stabilized HDPE copolymer grade. It shows an ideal combination of processability, consistency and product properties. It provides optimized high stiffness/cold impact-balance, surface quality and weatherability properties.

NOTICE: The information and data contained herein are believed to be correct and given in good faith, but because of the many particular factors which are outside our knowledge and control and affect the use of product, no warranty is given or is to be implied with respect to such information, nor do we offer any warranty of immunity against infringement.

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Typical Applications

SABIC® HDPE M40053S is especially recommended for the manufacture of injection molded dustbins (waste containers on wheels and household containers). The grade is especially suitable for the high demanding production of crates & boxes (pallet boxes, pallets, boxes applied at very low temperatures) and pails & container applications (industrial, shipping).

Physical Properties	Unit	Value ⁽¹⁾	ASTM Method
Melt index	g/10 min.	4.0	D-1238
Density	g/cm ³	0.953	D-1505
Vicat softening point	°C	125	D-1525
Brittleness temperature	°C	< -75	D-746
Tensile modulus @1%elongation	MPa	1000	D-638
Tensile strength @yield	MPa	26	D-638
Tensile strength @break	MPa	12	D-638
Tensile elongation @break	%	100	D-638
Izod impact	J/m	63	D-256
Hardness (shore D)	-	63	D-2240
ESCR (100%Igepal), F ₅₀	Hrs.	7	D-1693B

Test specimens are prepared from compression moulded sheet made according to ASTM D 1928 Procedure C.

Processing Conditions

Typical moulding conditions for SABIC® HDPE M40053S are:

Melt temperature: 232 - 260 °C (450 - 500 °F)

Mould temperature: 20 - 40 °C (70 - 104 °F)

Injection pressure: 93 - 103 MPa (13500 - 15000 PSI)

Food Regulation

Certificate is available on request.