

SABIC® HDPE M40053S

High Density Polyethylene Copolymer

SABIC

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Technical Data

Product Description

M40053S is a 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.

General

Material Status	• Commercial: Active		
Search for UL Yellow Card	• SABIC		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Uses	• Rigid Packaging		

Physical	Nominal Value Unit	Test Method
Density (23°C)	0.953 g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.0 g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (ESCR)		ASTM D1693B
10% Igepal, F50	4.00 hr	
100% Igepal, Compression Molded, F50	7.00 hr	

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus - 1% Secant	900 MPa	ASTM D638
Tensile Strength		ASTM D638
Yield	23.0 MPa	
Break	21.0 MPa	
Tensile Elongation (Break)	> 800 %	ASTM D638
Flexural Modulus ²	800 MPa	ISO 178
Flexural Strength	21.0 MPa	ASTM D790

Impact	Nominal Value Unit	Test Method
Unnotched Izod Impact	150 J/m	ASTM D4812

Hardness	Nominal Value Unit	Test Method
Durometer Hardness		ASTM D2240
Shore D, Injection Molded	60	

Thermal	Nominal Value Unit	Test Method
Brittleness Temperature	< -75.0 °C	ASTM D746
Vicat Softening Temperature	125 °C	ASTM D1525

Notes

¹ Typical properties: these are not to be construed as specifications.

² Type 1A



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Where to Buy

Supplier

SABIC

Web: <http://www.sabic.com/>

Distributor

AECTRA

Telephone: +33-4-72-54-36-42

Web: <https://www.aectra.fr/>

Availability: France

AGI-Augusto Guimarães & Irmão

Telephone: +351-22753-7400

Web: <https://www.agi.pt/en/>

Availability: Portugal

Distrupol Ltd

Distrupol Ltd is a Pan European distribution company. Contact Distrupol Ltd for availability of individual products by country.

Telephone: 08452003040

Web: <http://www.distrupol.com/>

Availability: Denmark, Finland, Norway, Sweden

Guangzhou Hua Xiu Plastics Co. Ltd

Telephone: +86-20-82582555

Web: <http://www.va-so.cn/>

Availability: Asia Pacific

Guzmán Polymers

Telephone: +34-963-992-400

Web: <https://www.guzmanglobal.com/en/productos/plastics/>

Availability: Italy, Spain, Turkey

Plastoplan

Telephone: +43-1-25040-0

Web: <https://www.plastoplan.com/>

Availability: Czech Republic, Poland, Slovakia

RESINEX Group

RESINEX is a Pan European distribution company. Contact RESINEX for availability of individual products by country.

Telephone: +32-14-672511

Web: <http://www.resinex.com/>

Availability: Europe

