

# SABIC® HDPE M300054

High Density Polyethylene Copolymer

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® HDPE M300054 is a high density polyethylene copolymer injection moulding grade. Its narrow molecular weight distribution and high flow results in low warpage, excellent gloss and fast moulding cycles.

SABIC® HDPE M300054 is recommended for applications such as housewares, small containers, aerosol caps, base cups, tubs and other thin-walled articles.

The product mentioned herein is in particular not tested and therefore not validated for use in pharmaceutical/medical applications.

General Information			
Features	Low warpage		
	Highlight		
	Copolymer		
	Fast molding cycle		
	High liquidity		
	Narrow molecular weight distribution		
Uses	Cup		
	Shield		
	Household goods		
	Container		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.954	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	30	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance	40.0	hr	Internal method
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	61		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1100	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield	26.0	MPa	ISO 527-2
Fracture	15.0	MPa	ISO 527-2
Tensile Strain (Break)	> 200	%	ISO 527-2
Flexural Modulus	1250	MPa	ISO 178
Flexural Stress	27.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	3.0	kJ/m <sup>2</sup>	ISO 180/A

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	82.0	°C	ISO 75-2/B
Vicat Softening Temperature	125	°C	ISO 306/A
Melting Temperature (DSC)	132	°C	ISO 11357-3
Enthalpy Change	205	J/g	ISO 11357-3
Injection	Nominal Value	Unit	
Processing (Melt) Temp	175 - 235	°C	
Mold Temperature	15.0 - 60.0	°C	

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#### Recommended distributors for this material

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