

# SABIC® HDPE M300054

High Density Polyethylene

SABIC Americas, Inc.

## Message:

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 faster molding cycles and excellent gloss.

### Typical Applications

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

General Information			
Features	Fast Molding Cycle		
	Food Contact Acceptable		
	Good Flow		
	High Gloss		
	Low Warpage		
	Narrow Molecular Weight Distribution		
Uses	Caps		
	Containers		
	Cups		
	Household Goods		
	Thin-walled Parts		
Forms	Pellets		
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			ASTM D1693B
10% Igepal, Compression Molded, F50	< 1.00	hr	
100% Igepal, Compression Molded, F50	< 1.00	hr	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Injection Molded)	60		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - 1% Secant (Injection Molded)	750	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield, Injection Molded	23.0	MPa	
Break, Injection Molded	12.0	MPa	

Tensile Elongation (Break, Injection Molded)	200	%	ASTM D638
Flexural Modulus (Injection Molded)	800	MPa	ASTM D790
Flexural Strength (Injection Molded)	22.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Injection Molded)	28	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -75.0	°C	ASTM D746
Vicat Softening Temperature	121	°C	ASTM D1525
Injection	Nominal Value	Unit	
Rear Temperature	175 to 230	°C	
Middle Temperature	175 to 230	°C	
Front Temperature	175 to 230	°C	
Mold Temperature	15.0 to 60.0	°C	
Injection Pressure	60.0 to 100	MPa	

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#### Recommended distributors for this material

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