

SABIC® HDPE M40060 Series

High Density Polyethylene

SABIC Americas, Inc.

Message:

M40060 is High Density Polyethylene grade with narrow molecular weight distribution suitable for injection molding applications. It has been designed to give good rigidity, excellent toughness and low warpage. M40060 is also available with UV stabilizer as M40060S.

M40060 series grades are recommended for industrial pails, shipping containers and other parts requiring balance of toughness and rigidity.

General Information			
Features	Food Contact Acceptable		
	Good Toughness		
	High Rigidity		
	Low Warpage		
	Narrow Molecular Weight Distribution		
Uses	Containers		
	Industrial Applications		
	Pails		
	Shipping Containers		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.960	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			ASTM D1693B
10% Igepal, Compression Molded, F50	3.00	hr	
100% Igepal, Compression Molded, F50	6.00	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)	950	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield, Injection Molded	24.0	MPa	
Break, Injection Molded	22.0	MPa	
Tensile Elongation (Break, Injection Molded)	> 600	%	ASTM D638
Flexural Modulus (Injection Molded)	900	MPa	ASTM D790
Flexural Strength (Injection Molded)	24.0	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Injection Molded)	180	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -75.0	°C	ASTM D746
Vicat Softening Temperature	125	°C	ASTM D1525
Injection	Nominal Value	Unit	
Rear Temperature	232 to 260	°C	
Middle Temperature	232 to 260	°C	
Front Temperature	232 to 260	°C	
Mold Temperature	15.0 to 60.0	°C	
Injection Pressure	60.0 to 100	MPa	

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