

SABIC® HDPE M80064 Series

High Density Polyethylene

SABIC Americas, Inc.

Message:

M80064 is High Density Polyethylene grade with narrow molecular weight distribution suitable for injection molding applications. It has been designed to give good rigidity, toughness and low warpage. M80064 is also available with UV stabilizer as M80064S. M80064 series grades are recommended for crates, molded cases and trays, industrial pails and other similar products requiring toughness and rigidity.

General Information			
Features	Food Contact Acceptable		
	Good Toughness		
	High Rigidity		
	Low Warpage		
	Narrow Molecular Weight Distribution		
Uses	Crates		
	Housings		
	Industrial Applications		
	Pails		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.964	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	8.0	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance			ASTM D1693B
10% Igepal, Compression Molded, F50	2.00	hr	
100% Igepal, Compression Molded, F50	3.00	hr	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Injection Molded)	62		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	26.0	MPa	
Break, Injection Molded	18.0	MPa	
Tensile Elongation (Break, Injection Molded)	> 800	%	ASTM D638
Flexural Modulus (Injection Molded)	1000	MPa	ASTM D790
Flexural Strength (Injection Molded)	25.0	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Injection Molded)	75	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	200 to 250	°C	
Middle Temperature	200 to 250	°C	
Front Temperature	200 to 250	°C	
Mold Temperature	15.0 to 60.0	°C	
Injection Pressure	60.0 to 100	MPa	

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

