

Petro Rabigh PE M8060

High Density Polyethylene
Rabigh Refining & Petrochemical Co.

Message:

M8060 is a high density polyethylene resin intended for injection molding. This resin has good flow characteristics that make it easier to process. Injection molding parts made from this resin exhibits high modulus and low warpage.

- Applications
- Transport and storage containers
 - Cartridges
 - Technical parts with moderate ESCR requirements
 - Closures for still mineral waters

General Information			
Features	Good Flow		
	Low Warpage		
Uses	Closures		
	Containers		
	Engineering Parts		
	Printer Parts		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.960	g/cm ³	ASTM D792A
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	8.0	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (10% Igepal, F50)	5.00	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	68		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	29.0	MPa	
Break	16.0	MPa	
Flexural Modulus	1430	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C)	3.0	kJ/m ²	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	127	°C	ASTM D1525 ¹
Injection	Nominal Value	Unit	
Processing (Melt) Temp	160 to 220	°C	
NOTE			
1.	Loading 1 (10 N)		

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