

POLYETHYLENE

M8060 & M8060U

High Density Polyethylene for injection molding application

Description

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 stiffness, high hardness, high modulus and low warpage.

Applications

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

Additive Package	UV Stabilizer
M8060	no
M8060U	Yes

Resin Properties	Unit	Test Method	Typical Value
MI (190°C/2.16Kg)	g/10min	ASTM D-1238	8
Density	g/cm ³	ASTM D-792A	0.960
Vicat Softening Temperature	°C	ASTM D-1525	126

Mechanical Properties			
Tensile Strength at Yield	MPa	ASTM D-638	29
Tensile Strength at Break	MPa	ASTM D-638	16
Tensile Elongation at Break	%	ASTM D-638	630
Flexural Modulus	MPa	ASTM D-638	1730
Izod Impact, Notched 23 °C	kJ/m ²	ASTM D-256	2.2
Shore Hardness-D		ASTM D2240	67
ESCR (Igepal10%) F ₅₀	hr	ASTM D-1693	5

Test specimen preparation Method: Pursuant to ASTM D 4976-04a

Processing conditions: Recommended melt temperature: 180-250 degree C

Storage and handling: M8060 & M8060U should be stored in a dry cool place with adequate ventilation and protected from UV-light at temperature below 50 °C

Food Contact Compliance: Please contact Petro Rabigh.