

Experimental Technical Data Sheet  
**IPETHENE® 1070**  
Low Density Polyethylene



### Product Description

**IPETHENE® 1070** is a low-density polyethylene injection molding grade, produced by high-pressure autoclave technology.

#### Features:

- No additives
- High flow
- Low warpage

#### Uses:

- Carpet Backing
- Baskets
- Hot-melt adhesives
- Thin walled articles
- High filler compounds

#### Processing Methods:

- Compounding
- Injection molding

Properties		Method	Typical Value*	Unit
<b>Physical</b>				
Melt Flow Rate	(190°C/2.16 kg)	ISO 1133	100	g/10 min
Density		ISO 1183-A	0.916	g/cm <sup>3</sup>
Shore Hardness	'D' Scale	ISO 868	40	
<b>Thermal</b>				
Peak Melting Temperature	By DSC	ISO 11357-3	105	°C
Vicat Softening Temperature	(10 N)	ISO 306	75	°C
<b>Mechanical</b>				
Tensile Stress at Break		ISO 527-2	7.5	MPa
Tensile Strain at Break		ISO 527-2	110	%

\*Typical values; not to be construed as specifications.

### Processing Recommendations

IPETHENE® 1070 can be easily processed on conventional injection molding machines. Due to differences in machine type, part shape and mold design, processing conditions should be optimized for each production line.

Typical temperature profile: Barrel 150-200°C; Mold 10-40°C.

### Health, Quality, Regulations and Safety

This product is not classified as dangerous substance. Material safety data sheets, international standards certificates (e.g. ISO 9001) and other regulatory documents are available on our website. Carmel Olefins products have not been tested and therefore not validated for use in pharmaceutical/medical applications, and their suitability for these uses cannot be guaranteed. It is the customer's responsibility to test and approve their technical and regulatory suitability in order to satisfy themselves as to the particular purpose and application(s).

Carmel Olefins Ltd. POB 1468 Haifa 31014 Israel  
Website: <http://www.Carmel-Olefins.co.il>  
Email: [techserv@caol.co.il](mailto:techserv@caol.co.il)

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