

Technical Data Sheet
IPETHENE® 900
Low Density Polyethylene



Product Description

IPETHENE® 900 is a low-density polyethylene injection molding grade, produced by high-pressure autoclave technology.

Features:

- No additives
- High flow
- Low warpage

Uses:

- Containers
- Baskets
- Household articles
- High filler compounds

Processing Methods:

- Compounding
- Injection molding

Properties

Physical

Properties	Method	Typical Value*	Unit
Melt Flow Rate	(190°C/2.16 kg) ISO 1133	50	g/10 min
Density	ISO 1183-A	0.916	g/cm ³
Shore Hardness	'D' Scale ISO 868	42	

Thermal

Peak Melting Temperature	By DSC ISO 11357-3	105	°C
Vicat Softening Temperature	(10 N) ISO 306	80	°C

Mechanical

Tensile Stress at Break	ISO 527-2	8	MPa
Tensile Strain at Break	ISO 527-2	120	%

*Typical values; not to be construed as specifications.

Processing Recommendations

IPETHENE® 900 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 160-220°C; Mold 10-40°C.

Health, Quality, Regulations and Safety

This product is not classified as dangerous substance and intended for industrial use, to produce plastic articles. Material safety data sheets, international standards certificates 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).

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