Technical Data Sheet

IPETHENE® 810

Low Density Polyethylene

CARMEL OLEFINS

Product Description

IPETHENE® 810 is a low-density polyethylene injection molding grade, produced by high-pressure autoclave technology.

Features:	• No additives • High flow	• Low warpage
Uses:	• Caps and closures • Household articles • Containers	• Baskets • Toys • Master-batches
Processing Methods:	• Compounding	• Injection molding

Properties		Method	Typical Value*	Unit
Physical				
Melt Flow Rate	(190°C/2.16 kg)	ISO 1133	20	g/10 min
Density		ISO 1183-A	0.918	g/cm^3
Shore Hardness	'D' Scale	ISO 868	45	
Thermal				
Peak Melting Temperature	By DSC	ISO 11357-3	108	°C
Vicat Softening Temperature	(10 N)	ISO 306	87	°C
Mechanical				
Tensile Stress at Break		ISO 527-2	9	MPa
Tensile Strain at Break		ISO 527-2	120	%

*Typical values; not to be construed as specifications.

Processing Recommendations

IPETHENE® 810 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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