

Ipethene® 810

Low Density Polyethylene

Carmel Olefins Ltd.

Message:

IPETHENE® 810 is a low density polyethylene injection molding grade, produced by high pressure autoclave technology. It is a high MFR grade with excellent flow properties allowing short cycle time and easy filling of long flow-paths. The molded article is characterized by low degree of build in stress, low warpage, good stiffness and flexibility.

General Information			
Features	Good Flexibility		
	Good Stiffness		
	High Flow		
	Low Density		
	Low Warpage		
Uses	Containers		
	Cups		
	Household Goods		
	Lids		
	Masterbatch		
	Toys		
Agency Ratings	EC 1907/2006 (REACH)		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.918	g/cm ³	ISO 1183/A
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	20	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	45		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	9.00	MPa	ISO 527-2
Tensile Strain (Break)	130	%	ISO 527-2
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	87.0	°C	ISO 306
Melting Temperature ¹	108	°C	ISO 11357-3
Injection	Nominal Value	Unit	
Processing (Melt) Temp	160 to 220	°C	
Mold Temperature	10.0 to 40.0	°C	
NOTE			

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

