

Technical Data Sheet

IPETHENE® 900

Low Density Polyethylene

Description

IPETHENE® 900 is a low density polyethylene injection molding grade, produced by high pressure autoclave technology. It is an extremely fast flowing grade for flexible articles where mechanical properties are not critical. It allows easy filling of the mold at short cycle time, even with complex geometry. The molded article is characterized by very low degree of build in stress, low warpage and good flexibility.

Additives

This grade does not contain additives.

Applications

IPETHENE® 900 is suitable for flexible products like household goods, containers, buckets and toys. Additional application is the production of master-batches with high pigments loading.

Quality, Environmental and Safety Regulations

Material Safety Data Sheets and other regulatory documents are available on our web site <http://www.caol.co.il>

Resin Properties		Method	Typical Value*	Unit
Physical				
Melt Flow Rate	(190°C/2.16 kg)	ISO 1133	50.0	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		ISO 306	80	°C
Mechanical				
Tensile Stress at Break		ISO 527-2	8	MPa
Tensile Strain at Break		ISO 527-2	130	%

* 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.