



LDPE	LLDPE	MDPE	HDPE	PP	PVC	GPPS	HIPS	EPS	PET	ABS	SBR	PBR	PC	E.P.
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كوثر شيمي
Kosar Shimi
+9821 - 43462000
info@kosar.co
www.kosar.co

PI0800 POLYPROPYLENE

General Informations:

PI0800 is a homopolymer injection moulding grade. It is a linear, stereoregular and high crystalline polymer that imparts useful strength and toughness.

The principal characteristics of homopolypropylene injection moulding are relatively high stiffness, low specific gravity, high tensile strength, good clarity, good stress crack resistance and relatively high temperature resistance. This grade contains antioxidant to protect the polymer from degradation during processing.

Applications:

A large variety of polypropylene types meet the varying needs of injection moulding applications, such as homopolymers, copolymers and compounded polymer. PI0800 is well suited for wide range of applications, for example: house wares, table wares, kitchen wares, stationery, toys, hospital wares and automotive applications.

Specifications:

Property	Unit	Value	Test Method
MFI (190 °C /2.16kg)	gr/10 min.	8.5	ASTM D -1238
Isotactic index of powder	%	96	MTC Method
Vicat softening point	°C	153	ASTM D - 1525
Tensile strength @ break	kg/cm ²	330 min.	ASTM D - 638
Elongation @ Break	%	500 min.	ASTM D - 638
Charpy impact (Notched)	kg.cm/cm ²	2.25	ASTM D - 256
Izod impact	kg.cm/cm	2 min.	ASTM D - 256
Volatile matter	Wt%	0.05 max.	ASTM D - 1960
Flexural stiffness	Kg/cm ²	12000	ASTM D - 747
Hardness	R-scale	103	ASTM D - 785

The above data are typical laboratory average . They are intended to serve as guides only.



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Processing conditions :

PI0800 can be extruded to yield sheet used for thermoforming and stamping, and also to yield pipes and profiles. High molecular weight, low melt flow materials will provide the required melt strength. Single screw extruders with high length/diameter ratio provide good mixing of the melt. Back pressure of 10-20 MPa (1500-3000 psia) improve melt uniformity. Melt temperature range of 230-260 °C are commonly used for sheeting and also for injection molding .

Storage:

The product should be stored in dry conditions at temperature below 60°C and protected from UV-light. Improper storage can initiate degradation with resulting odour generation and colour changes.

Health & Environment:

PI0800 is not classified as dangerous product. Dust and fines from the product may give a risk for dust explosion. All equipment should be properly grounded. Inhalation of dust may irritate the respiratory system and should be avoided. During processing of the product small amounts of fumes are generated, which require proper ventilation.

Recycling:

End products made from this polymer are recyclable using modern methods of shredding and cleaning, but for the pipes applications only if approved by the relevant standards or specifications. In-house produced waste should be kept clean to facilitate direct recycling.

Dumping and land filling is also possible in agreement with the competent authorities.

Food Contact:

The composition of products complies with the EC Directive 90/128/EEC for use in food contact applications.

Packaging:

This product is packed in 25 Kg PE bags.