KOREA PETROCHEMICAL IND,CO.,LTD

General Homo PP

YUHWAPOLYPRO® 4017M

A. Description

Application : Injection Molding
Characteristics : High Flowability
Use cases : General Home Appliances, Thin Walled Acticle

B. Specification

Item (Term)	Value	Unit	Method
MeIt Index	14	g/10min.	ASTM D1238
Density	0.9	g/㎤	ASTM D1505

C. Physical Properties

Item (Term)	Value	Unit	Method
Mold Shrinkage (Linear)	1.0 - 2.0	%	KPIC Method
Water Absorption	<0.01	%	ASTM D570
Tensile Strength (Yield)	370	kg_f/cm^2	ASTM D638
Elongation (Break)	>500	%	ASTM D638
Flexural Modulus	18,000	kg_f/cm^2	ASTM D790
Hardness (Rockwell)	102	R Scale	ASTM D785
Impact Strength (Izod with notch)	4	kg_f cm/cm	ASTM D256
Melting Point	165	℃	ASTM D3418
Softening Point (Vicat)	153	℃	ASTM D1525
Heat Deflection Temperature	110	℃	ASTM D648
Thermal Expansion (Linear)	11	10-5㎝/㎝℃	ASTM D696
Specific Heat	0.46	cal/g℃	KPIC Method
Heat Conductivity	3	10^{-4}cal cm/cmsec.℃	KPIC Method
Volume Resistivity	1	1017ohm.㎝	ASTM D257
Dielectric Constant (1KHz)	2.3		ASTM D150
Dissipation Factor (1KHz)	2	10^{-4}	ASTM D150
Dielectric Strength (Short	40	KV/㎜	ASTM D149

Time)			
Arc Resistance	130	sec.	ASTM D495

* Test sample ; Injection molding specimen.

* Above data are typical laboratory averages.

They are intended to serve as guides only, and are not sales specification limits.

D. Process Conditions

Cylinder temperature	190 - 260℃
Mold temperature	40 - 60℃

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