

LOTTE CHEMICAL

November, 2016

HOPELEN SJ-170M

PP HOMOPOLYMER

General Information

Description

SJ-170M is homo polymer resin produced through the polymerization of propylene. This grade is designed to be processed in conventional Injection molding equipment. SJ-170M shows good thermal stability and high melt-flow. It is typically used in production of housewares, the transparency stationery and disposable syringes. In particular, SJ-170M is suitable for medical application demanded gamma-ray sterilization. This grade satisfied the standard of USP Class VI.

Applications

- ◆Housewares, General supplies, Transparency stationery
- ◆Medical application such as disposable syringes, gamma-ray resistance

Physical Properties¹

Physical	Test Method	Nominal Values			
Melt Flow Index	ASTM D1238	26	g/10min		
Density	ASTM D792	0.90	g/cm³		
Mechanical					
Tensile Stress (Yield)	ASTM D638	370	kgf/cm²	36	MPa
Tensile Strain (Break)	ASTM D638	<100	%	<100	%
Flexural Modulus	ASTM D790	18,000	kgf/cm²	1,760	MPa
Impact					
Notched Izod Impact Strength (23℃)	ASTM D256	3.0	kgf-cm/cm	30	J/m
Notched Izod Impact Strength (-10℃)	ASTM D256	2.0	kgf-cm/cm	20	J/m
Thermal					
Heat Deflection Temperature (4.6kgf/cm²)	ASTM D648	115	℃		

NOTE

ISO 9001, 14001, ITS 16949

¹ Physical Properties : these are not to be construed as specifications