General Specifications of Polypropylene co-polymer resin

Density, g/cc ASTM-D782A-2	0.90
Notched Izod Impact STRENGTH ASTM-D256 @ 23 degree (Unit J/m)	200
Tensile Strength at Yield (MPa units) ASTM D638 50mm/min.	27
Elongation at yield % ,ASTM D638 50mm/min	11
Deflection Temp. degrees 66psi	90
Water Absorption - 24 hrs, % ASTM-D570	0.02

Coefficient of Linear Thermal Expansion	-30 degrees C to 0 degrees C	12
	0 degrees C to 30 degrees C	14
(MM/MM/C x [10 to the -5th])	30 degrees C to 60 degrees C	21

Normal temperature performance range	-25 degree to 70 degree
Melting point	160 degrees C

All information has been supplied by resin manufacturers -- SHISH provides this data as a service and makes no warranty of information beyond our control.

General Specifications -- Explanation of Terms

1. Density, g/cc, ASTM-D782A: This test determines the material weight in grams per cubic centimeter, which means 1 cubic centimeter of our polypropylene resin would have an average weight of .9 grams.
2. Notched Izod Impact,, ASTM-D256: This test determines the force used to break a sample of our polypropylene using a pendulum type hammer which is dropped from a standardized distance. A notch is milled into the sample to concentrate stress to that point which promotes a brittle fracture. The tests are reported in terms of energy absorbed per unit of sample width.
3. Tensile Strength at Yield, ASTM-D638: This test determines force taken to break/ tear a polypropylene sample at a speed rat of 50mm/minute and percentage of elongation at time of yield or break. It took force with 10% elongation at time of yield or break.
4. Deflection Temperature, in Degrees, ASTM-D648: This test determines at what temperature a polypropylene sample exhibits deformation with a specified force applied to the sample bridged across a test apparatus. The test uses a 66 psi load and a 264 psi load and determines deflection temperature at which point that the sample deforms .010 inch.
5. Water Absorption, % in 24 hrs, ASTM-D570: This test determines the relative rate of absorption of water by plastics when submersed for a 24 hour period. Samples are preconditioned (dried) before the test. The moisture content is very intimately related to such properties as electrical insulation resistance, dielectric losses, mechanical strength, appearance and dimensions.

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