

HP532J

Homopolymer

Description:

HP532J is a heat and detergent resistant polypropylene homopolymer. This product is designed for injection molding items which are subject to severe environmental conditions as well as extruded tapes and raffia. HP532J is formulated with a very effective heat and detergent stabilisation package for both dry and wet environments. The product also shows a high resistance to solvents and chemicals. In a dry environment, items produced with HP532J can withstand a continuous heat of 95°C for over 80.000 hours and 70°C for over 1.000.000 hours. In a wet environment, the items can resist to a continuous temperature of 95°C for over 10.000 hours and 70°C for over 130.000 hours. In a wet environment in the presence of detergents, the items can withstand 95°C for over 4.500 hours and 70°C for more than 50.000 hours.

Typical Applications

- Automotive under-the-hood applications
- Components for small household appliances
- Irons, coffee machines, hair dryers and toasters
- Parts for dish washers, washing machines and refrigerators
- Chain links for conveyor belts and textile bobbins
- Tapes and raffia
- Film wrap
- Filament yarn

Features: Good balance of stiffness and impact strength, Good processability, High resistance to detergent, solvents and chemicals, High resistance to heat

Suitable for: Injection molding and Extrusion (raffia, tape) applications

Product Specification

PHYSICAL/MECHANICAL PROPERTIES	VALUE*	UNIT	TEST METHOD
Melt Flow Rate (230 °C, 2.16 kg)	3	g/10 min	ASTM D1238
Density	0.9	g/cm ³	ASTM D1505
Flexural Modulus	1550	MPa	ASTM D790
Tensile Strength at Yield	35	MPa	ASTM D638
Tensile Elongation at Yield	12	%	ASTM D638
Izod Impact Strength (notched) at 23 °C	55	J/m	ASTM D256
Rockwell Hardness	102	R Scale	ASTM D785
Vicat softening point (10 N)	156	°C	ASTM D1525
H.D.T. (0.46 MPa)	94	°C	ASTM D648
Accelerated oven ageing in air at 150 °C	1800	h	ASTM D3012

* Typical values; not to be considered as product specification.