

Jampilen HP532J

Polypropylene Homopolymer

Jam Polypropylene Company

Message:

Jampilen HP532J is a heat and detergent resistant polypropylene homopolymer. The product is designed for injection molding items which are subject to severe environmental conditions as well as extruded tapes and raffia. Jampilen HP532J offers good processability and finished items produced by it show good balance of stiffness and impact strength. Jampilen 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 Jampilen 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.

General Information			
Features	Detergent Resistant		
	Good Chemical Resistance		
	Good Impact Resistance		
	Good Processability		
	Good Stiffness		
	High Heat Resistance		
	Homopolymer		
	Solvent Resistant		
Uses	Appliance Components		
	Automotive Under the Hood		
	Bobbins		
	Filaments		
	Film		
	Tape		
	White Goods & Small Appliances		
	Yarn		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	3.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	102		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	35.0	MPa	ASTM D638

Tensile Elongation (Yield)	12	%	ASTM D638
Flexural Modulus	1550	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	55	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	94.0	°C	ASTM D648
Vicat Softening Temperature	156	°C	ASTM D1525 ¹
Accelerated Oven Ageing (150°C)	1800	hr	ASTM D3012
Additional Information	Nominal Value	Unit	
Heat Resistance			
Dry Environment : 70°C	> 114	yr	
Dry Environment : 95°C	> 9	yr	
Wet Environment : 70°C	> 15	yr	
Wet Environment : 95°C	> 1	yr	
Wet Environment with Detergent : 70°C	> 6	yr	
Wet Environment with Detergent : 95°C	> 1	yr	
NOTE			

1. Loading 1 (10 N)

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