

Moplen T50G

Polypropylene Homopolymer
Shazand (Arak) Petrochemical Corporation

Message:

Moplen T50G is a heat and detergent resistant polypropylene homo-polymer. The product is designed for injection moulding items which are subject to sever environmental conditions. Moplen T50G offers good process ability by injection molding. Finished items produced with Moplen T50G show a good balance of stiffness and impact strength.

Moplen T50G is formulated with a very effective heat and detergent stabilization package for both dry and wet environment. The product also shows a high resistance to solvents and chemicals. Because of these properties, it is particularly suitable for injection molding automotive under-the-hood applications and components for small household appliances such as irons, coffee machines, hair dryers and toasters. Other typical applications are technical items such as parts for dish washers, washing machines and refrigerators, chain links for conveyor belts and textile bobbins.

* Moplen T50G is suitable for food contact.

General Information			
Features	Detergent Resistant		
	Food Contact Acceptable		
	Good Chemical Resistance		
	Good Impact Resistance		
	Good Processability		
	Good Stiffness		
	High Heat Resistance		
	Homopolymer		
	Solvent Resistant		
Uses	Appliance Components		
	Automotive Under the Hood		
	Belts/Belt Repair		
	Bobbins		
	White Goods & Small Appliances		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	3.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	36.0	MPa	ASTM D638
Tensile Elongation (Yield)	12	%	ASTM D638
Flexural Modulus	1500	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	45	J/m	ASTM D256
Aging	Nominal Value	Unit	Test Method
Oven Aging (150°C)	2.1	month	ASTM D3012
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (0.45 MPa, Unannealed)	95.0	°C	ASTM D648
Vicat Softening Temperature	153	°C	ASTM D1525 ¹
NOTE			
1.	Loading 1 (10 N)		

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