Moplen HP648S

Polypropylene Homopolymer

Shazand (Arak) Petrochemical Corporation

Message:

Moplen HP648S is a high melt flow homo-polymer with a narrow molecular weight distribution. Moplen HP648S is designed for high-speed injection moulding of thin-walled items with good transparency & optimum antistatic properties. Because of its outstanding flow properties, its very high stiffness & excellent dimensional stability, Moplen HP648S can be moulded at very high speeds production thin-walled parts, even with complicated shapes, without distortion. Moplen HP648S is widely used for thin-walled packaging in the cosmetic & food industry. The product is also suited for pens, videocassette boxes, caps, closures, house wares & small appliances such as coffee machines & food processors. Other typical applications of Moplen HP648S include office accessories, disposable razors & camping articles. In many of these applications Moplen HP648S can replace traditional materials such as polystyrene
since the product exhibits excellent process ability, low in mould stress, low shrinkage & warpage on top of the advantage typical of polypropylene such as light weight, low odour transfer, high chemical resistance & a good balance of mechanical properties.
* Moplen HP648S is suitable for food contact.

General Information	
Additive	Antistatic
Features	Antistatic
	Fast Molding Cycle
	Food Contact Acceptable
	Good Chemical Resistance
	Good Dimensional Stability
	Good Moldability
	Good Processability
	High Clarity
	High Flow
	High Stiffness
	Homopolymer
	Low Odor Transfer
	Low Shrinkage
	Narrow Molecular Weight Distribution
	Warp Resistant
Uses	Caps
	Closures
	Cosmetic Packaging
	Food Packaging
	Household Goods
	Thin-walled Parts
	Video Cassettes
	White Goods & Small Appliances
	Writing Instruments

Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	35	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)	10	%	ASTM D638
Flexural Modulus	1500	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C)	29	J/m	ASTM D256
Aging	**Nominal Value**	**Unit**	**Test Method**
Oven Aging (150°C)	15.0	day	ASTM D3012
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (0.45 MPa, Unannealed)	110	°C	ASTM D648
Vicat Softening Temperature	155	°C	ASTM D1525 [1]
NOTE			
1.	Loading 1 (10 N)		

Recommended distributors for this material

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