

MARPOL® PSH 6093

High Impact Polystyrene
Marco Polo International, Inc.

Message:

MARPOL ® PSH 6093 is a super high impact polystyrene designed for injection molding applications that require superior toughness. This polymer has excellent gloss, impact and falling dart properties.

General Information			
Features	Food Contact Acceptable		
	High Gloss		
	Ultra High Impact Resistance		
	Ultra High Toughness		
Uses	Appliances		
	Industrial Applications		
	Toys		
Agency Ratings	FDA 21 CFR 177.1640		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.04	g/cm ³	
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	9.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 to 0.70	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	21.4	MPa	ASTM D638
Tensile Elongation (Yield)	55	%	ASTM D638
Flexural Strength	38.6	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	140	J/m	ASTM D256
Falling Dart Impact	15.8	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Annealed)	87.8	°C	ASTM D648
Vicat Softening Temperature	94.4	°C	ASTM D1525
Optical	Nominal Value		Test Method
Gloss (60°)	90		ASTM D523

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Recommended distributors for this material

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