

TOTAL Polystyrene 945

High Impact Polystyrene
TOTAL Refining & Chemicals

Message:

TOTAL Petrochemicals 945 is a super high impact polystyrene designed for injection molding applications requiring superior toughness. This polymer has excellent gloss, impact and falling dart properties, allowing design engineers to use it instead of more expensive engineering polymers.

General Information			
Features	Good Toughness		
	High Gloss		
Uses	Appliance Components		
	Housings		
	Industrial Applications		
	Toys		
Agency Ratings	EC 1907/2006 (REACH)		
	FDA 21 CFR 177.1640		
	USP Class VI		
UL File Number	E55470		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	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
Moisture	< 0.10	%	
Heat Distortion - Annealed	88	°C	ASTM D648
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1930	MPa	ASTM D638
Tensile Strength	21.4	MPa	ASTM D638
Tensile Elongation (Break)	55	%	ASTM D638
Flexural Modulus	2140	MPa	ASTM D790
Flexural Strength	38.6	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	140	J/m	ASTM D256
Gardner Impact	15.8	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	94.4	°C	ASTM D1525

Flammability	Nominal Value	Test Method
Flame Rating	HB	UL 94
Optical	Nominal Value	Test Method
Gardner Gloss (60°)	90	ASTM D523

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Recommended distributors for this material

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