

TOTAL Polystyrene Impact 825

High Impact Polystyrene
TOTAL Refining & Chemicals

Message:

Total Petrochemicals 825 is the high impact polystyrene for injection molding. This easy processing grade allows fast cycle times with minimal post stress resulting in outstanding impact retention. Advanced rubber particle size control makes this polymer the choice for all high gloss applications. Applications such as appliance housings, housewares, toys, and structural foam require this polymer to produce consistent parts. The perfect choice for those refrigeration applications.

General Information			
Features	Fast Molding Cycle		
	High Gloss		
Uses	Household Goods		
	Housings		
	Structural Foam		
	Toys		
Agency Ratings	EC 1907/2006 (REACH)		
	FDA 21 CFR 177.1640		
	USP Class VI		
UL File Number	E55470		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm ³	Internal Method
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	8.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 to 0.70	%	ASTM D955
Moisture	< 0.10	%	
Heat Distortion - Annealed	89	°C	ASTM D648
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2280	MPa	ASTM D638
Tensile Strength	24.8	MPa	ASTM D638
Tensile Elongation (Break)	45	%	ASTM D638
Flexural Modulus	2340	MPa	ASTM D790
Flexural Strength	44.8	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	110	J/m	ASTM D256
Gardner Impact	12.4	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	96.1	°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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