

TOTAL Polystyrene Impact 625

Medium Impact Polystyrene

TOTAL Refining & Chemicals

Message:

TOTAL Petrochemicals 625 is a medium impact polystyrene with balanced physical properties. Thin walled parts with complex runners and gates, run fast and consistently with the easy flow 625. The natural whiteness of 625 allows for brightness of color matches. TOTAL 625 is the base carrier of choice for many color concentrate producers.

This polymer is utilized in applications such as scale models, toys, housewares, and containers requiring consistency from shot to shot. An excellent polymer for those high gloss applications.

General Information			
Features	Good Flow		
Uses	Containers		
	Household Goods		
	Thin-walled Parts		
	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	
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	13	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 to 0.70	%	ASTM D955
Moisture	< 0.10	%	
Heat Distortion - Annealed	87	°C	ASTM D648
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2410	MPa	ASTM D638
Tensile Strength	24.8	MPa	ASTM D638
Tensile Elongation (Break)	40	%	ASTM D638
Flexural Modulus	2340	MPa	ASTM D790
Flexural Strength	45.5	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	75	J/m	ASTM D256
Gardner Impact	10.7	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	93.3	°C	ASTM D1525
Flammability	Nominal Value		Test Method

Flame Rating	HB	UL 94
Optical	Nominal Value	Test Method
Gardner Gloss (60°)	97	ASTM D523

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