

TOTAL Polystyrene Impact 740

High Impact Polystyrene
TOTAL Refining & Chemicals

Message:

TOTAL Petrochemicals 740 is an impact polystyrene designed for extrusion and injection molding. It is especially suitable for extrusion thermoforming applications requiring high gloss and high stiffness, such as food service disposables. A unique combination of thermal characteristics favors 740 for thin walling, high-speed thermoforming gloss, small appliance, and electronics applications.

General Information	
Features	Fast Molding Cycle
	High Gloss
	High Stiffness
Uses	Appliances
	Containers
	Cups
	Electrical/Electronic Applications
	Lids
Agency Ratings	EC 1907/2006 (REACH)
	FDA 21 CFR 177.1640
	USP Class VI
UL File Number	E55470
Forms	Pellets
Processing Method	Extrusion
	Injection Molding
	Thermoforming

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm ³	
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	4.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 to 0.80	%	ASTM D955
Moisture	< 0.10	%	
Heat Distortion - Annealed	94	°C	ASTM D648
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2340	MPa	ASTM D638
Tensile Strength	30.3	MPa	ASTM D638
Tensile Elongation (Break)	45	%	ASTM D638
Flexural Modulus	2550	MPa	ASTM D790
Flexural Strength	55.2	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	110	J/m	ASTM D256
Gardner Impact	13.6	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	101	°C	ASTM D1525
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
Optical	Nominal Value		Test Method
Gardner Gloss (60°)	92		ASTM D523

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