

TOTAL Polystyrene Crystal CX5243

General Purpose Polystyrene

TOTAL Refining & Chemicals

Message:

TOTAL Petrochemicals CX5243 is a very high flow, high heat crystal polystyrene. The very low viscosity of this grade combined with its high heat resistance makes it particularly suitable for the production of extrusion foam board (XPS) with blowing agents such as CO 2 and HFC. It is also ideal for use as a masterbatch carrier.

Applications

Insulation foam board

Masterbatch carrier

Modifier for thermoplastic elastomers and rubbers

General Information

This material complies with FDA requirements as described in 21 CFR §177.1640.

USP Class VI

Material Safety Data Sheets are available to help customers satisfy their safety needs.

General Information			
Features	High Flow		
	High Heat Resistance		
	Highly Crystalline		
	Low Viscosity		
Uses	Foam		
	Masterbatch		
Agency Ratings	FDA 21 CFR 177.1640		
	USP Class VI		
Forms	Pellets		
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)	23	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 to 0.70	%	ASTM D955
Moisture	< 0.10	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2960	MPa	ASTM D638
Tensile Strength	27.6	MPa	ASTM D638
Flexural Modulus	3310	MPa	ASTM D790
Flexural Strength	46.2	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Annealed)	95.6	°C	ASTM D648
Vicat Softening Temperature	106	°C	ASTM D1525

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Recommended distributors for this material

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