

Description

Polystyrene 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 CO₂ and HFC. It is also ideal for use as a masterbatch carrier.

Application:

- 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.

Characteristics

	Method	Unit	Typical Value
Rheological Properties			
Melt Flow (200°C-5kg)	D-1238	g/10mn	23
Mechanical Properties			
Tensile Strength	D-638	psi	4,000
Tensile Modulus	D-638	psi (10 ⁵)	4.3
Flexural Strength	D-790	psi	6,700
Flexural Modulus	D-790	psi (10 ⁵)	4.8
Thermal Properties			
Heat Distortion - Annealed	D-648	°F	204
Vicat Softening	D-1525	°F	222
Other Physical Properties			
Density		g/cm ³	1.04
Linear Shrinkage	D-955	in/in	.004 - .007
Moisture		%	<0.1