

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

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All tests were run under laboratory conditions. ASTM (where applicable) testing procedures. The data are intended as a general guide only and do not necessarily represent results that may be obtained elsewhere. The use of TOTAL products must be guided by the users own methods for selection of proper formulation. TOTAL PETROCHEMICALS & REFINING USA, INC. disclaims any responsibility for misuse or miss application of its products. TOTAL MAKES NO WARRANTY OF MERCHANTABILITY. THERE IS NO WARRANTY THAT GOODS SUPPLIED SHALL BE FIT FOR ANY PARTICULAR PURPOSE. TOTAL'S liability and customer's exclusive remedy for any claims arising out of sales of its products are expressly limited at customer option to replacement of non-performing goods or payment not to exceed the purchase price plus transportation charges thereon in respect to any material which damage is claimed.

