TOTAL Polystyrene 1450

General Purpose Polystyrene

TOTAL Refining & Chemicals

Message:

Polystyrene Crystal 1450 is a high heat resistant, easy flow polystyrene for foam extrusion and injection molding applications.
It offers optimum fluidity and excellent thermal properties for foam extrusion and injection molding.
Applications:
Extrusion Sheet
Foam Extrusion
Household

General Information	
Features	Foamable property Good liquidity Heat resistance, high Thermal stability, good
Agency Ratings	EC 1907/2006 (REACH)
Processing Method	Foam extrusion molding Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm³	ASTM D792
Apparent Density	0.60	g/cm³	ASTM D1895
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	5.0	g/10 min	ASTM D1238, ISO 1133
Spiral Flow [1]	55.0	cm	ASTM D3123
Molding Shrinkage - Flow	0.40 - 0.70	%	ASTM D955
Water Absorption			
Saturation	0.040	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.040	%	ISO 62
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness			
L scale, 23°C, injection molding	70		ASTM D785
L scale, 23°C	70		ISO 2039-2
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Yield, 23°C, Injection Molded)	50.0	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break, 23°C, Injection Molded)	2.0	%	ASTM D638, ISO 527-2
Flexural Modulus (23°C, Injection Molded)	3300	MPa	ASTM D790, ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Unnotched Izod Impact			

23°C, injection molding	73	J/m	ASTM D256
23°C, injection molding	8.0	kJ/m²	ISO 180
Thermal	**Nominal Value**	**Unit**	**Test Method**
Vicat Softening Temperature	103	°C	ISO 306/A50, ASTM D1525 [2]
CLTE - Flow	8.9E-5	cm/cm/°C	ASTM D696
Heat Distortion			
--	85	°C	ISO 75-2
--	85	°C	ASTM D648
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	> 1.0E+14	ohms	IEC 60093
Dielectric Strength	150	kV/mm	ASTM D149
Injection	**Nominal Value**	**Unit**	
Rear Temperature	170 - 180	°C	
Middle Temperature	180 - 220	°C	
Front Temperature	210 - 240	°C	
Nozzle Temperature	210 - 240	°C	
Injection instructions			
Zone 4: 210-240°C			
NOTE			
1.	Melt temperature: 220°C		
2.	速率 A (50°C/h), 压 力1 (10N)		

Recommended distributors for this material

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