

TOTAL Polystyrene 3341

High Impact Polystyrene

TOTAL Refining & Chemicals

Message:

Polystyrene Impact 3341 is a high ductility polystyrene for extrusion application. It offers good mechanical and thermal properties, that leads to manufacturing of thermoformed articles with good rigidity and toughness.

Applications:

Sheet for Thermoforming

Food Packaging

Electronic Packaging

General Information	
Features	Rigidity, high Good toughness
Uses	Packaging Sheet Food packaging
Agency Ratings	EC 1907/2006 (REACH)
Forms	Particle
Processing Method	Extrusion Thermoforming

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm ³	ASTM D792
Apparent Density	0.60	g/cm ³	ASTM D1895
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	3.0	g/10 min	ASTM D1238, ISO 1133
Spiral Flow ¹	44.0	cm	ASTM D3123
Molding Shrinkage - Flow	0.40 - 0.70	%	ASTM D955
Water Absorption			
24 hr	0.070	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.070	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
Grade R, 23°C, Injection Molding	99		ASTM D785
R scale, 23°C	99		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 23°C, Injection Molded)	32.0	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break, 23°C, Injection Molded)	45	%	ASTM D638, ISO 527-2

Flexural Modulus (23°C, Injection Molded)	2300	MPa	ASTM D790, ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C, injection molding	100	J/m	ASTM D256
23°C, injection molding	12	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	100	°C	ISO 306/A50, ASTM D1525 2
CLTE - Flow	9.1E-5	cm/cm/°C	ASTM D696
Heat Distortion			
--	80	°C	ISO 75-2
--	80	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+14	ohms	IEC 60093
Dielectric Strength	150	kV/mm	ASTM D149
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	150 - 180	°C	
Cylinder Zone 2 Temp.	170 - 210	°C	
Cylinder Zone 3 Temp.	190 - 230	°C	
Cylinder Zone 4 Temp.	200 - 240	°C	
Extrusion instructions			
Nozzle: 210-250°C			
NOTE			
1.	Mold temperature: 220°C		
2.	速率 A (50°C/h), 压力1 (10N)		

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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