

## Description

- TOTAL POLYSTYRENE 3441 is a high heat resistance, high stiffness high impact polystyrene for extrusion and injection molding applications.
- Due of its ideal balance of properties this grade is well suited for the production of articles requiring good dimension stability at high temperature and short cycle times.

## Applications

- TV Back Cover
- Office Automation
- Electrical and Electronic
- Toy

Properties	Method	Unit	Value (*)
<b>Rheological</b>			
Melt Flow Index (200°C / 5kg)	ISO 1133	g/10min	5
Spiral Flow (220°C)	-	cm	48
<b>Thermal</b>			
Vicat Softening Point 10N (T° increase = 50°C/h)	ISO 306	°C	100
Coefficient of Linear Thermal Expansion	-	mm/°C	9.1
<b>Mechanical</b>			
Notched Izod Impact Strength	ISO 180	kJ/m <sup>2</sup>	10.5
Tensile Strength at Yield	ISO 527	MPa	30
Elongation at Break	ISO 527	%	45
Flexural Modulus	ISO 178	MPa	1900
Rockwell Hardness	ISO 2039	-	R99
<b>Electrical</b>			
Dielectric Strength	-	kV/mm	150
Surface Resistivity	ISO IEC 93	Ohms	>10 <sup>13</sup>
<b>Others</b>			
Density	ISO 1183	g/cm <sup>3</sup>	1.04
Moulding Shrinkage	-	%	0.4-0.7
Water Absorption	ISO 62	%	0.07
UL 94 Class	UL 94	-	HB

(\*) Data not intended for specification purposes.

\*All tests have been carried out at 23°C unless otherwise stated.

\*Mechanical properties have been measured on injection molded test specimens.

\*Bulk density is approximately 0.6 g/cm<sup>3</sup>.

## General Information

- Processing condition: Temperatures during extrusion/injection should be below 240°C.
- Recommended Pre-Dry condition: 70°C for 2 hours.
- Please refer to the safety data sheet (SDS) for handling and storage information. It is advisable to convert the product within six months after delivery provided storage conditions as given in the SDS of our product. SDS may be obtained from the website: [www.totalrefiningchemicals.com](http://www.totalrefiningchemicals.com)

Information contained in this publication is true and accurate at the time of publication and to the best of our knowledge. The nominal values stated herein are obtained using laboratory test specimens. Before using one of the products mentioned herein, customers and other users should take all care in determining the suitability of such product for the intended use. Unless specifically indicated, the products mentioned herein are not suitable for applications in the pharmaceutical or medical sector. The Companies within Total Refining & Chemicals do not accept any liability whatsoever arising from the use of this information or the use, application or processing of any product described herein. No information contained in this publication can be considered as a suggestion to infringe patents. The Companies disclaim any liability that may be claimed for infringement or alleged infringement of patents.

Revision Date: September 2015