



**TOTAL 道达尔**  
COMMITTED TO BETTER ENERGY

Refining & Chemicals  
Polymers Orient

+135-3858-6433 (GuangDong)  
+188-1699-6168 (ShangHai)  
+852-6957-5415 (HongKong)

**POLYSTYRENE 3441**

Technical Data Sheet  
High Impact Polystyrene  
Manufactured in China

## 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.

Polystyrene