

STYROLUTION PS 1441

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DESCRIPTION

INEOS STYROLUTION 1441 is a high melt flow crystal polystyrene designed for injection molding applications.

This grade displays a low viscosity at high shear rate for an easy processability.

FEATURES

- High Melt Flow
- Easy Processability
- Injection Molding

APPLICATIONS

- Cutlery
- Household parts

Property, Test Condition	Standard	Unit	Values
Rheological Properties			
Melt Flow Rate, 200 °C/5 kg	ISO 1133	g/10 min	8
Melt Volume Rate, 200 °C/5 kg	ISO 1133	cm ³ /10 min	7.7
Mechanical Properties			
Izod Unnotched Impact Strength, 23 °C	ISO 180	kJ/m ²	7
Tensile Stress at Break, 23 °C	ISO 527	MPa	40
Tensile Modulus	ISO 527	MPa	2600
Elongation at Break (MD)	ISO 527	%	2
Flexural Strength, 23 °C	ISO 178	MPa	65
Flexural Modulus, 23 °C	ISO 178	MPa	2850
Hardness, Rockwell	-	L Scale	70
Thermal Properties			
Vicat Softening Temperature, VST/A/50 (10N, 50 °C/h)	ISO 306	°C	95
Vicat Softening Temperature VST/B/50 (50N, 50 °C/h)	ISO 306	°C	90
Coefficient of Linear Thermal Expansion	ISO 11359	10 ⁻⁶ /°C	89
Electrical Properties			
Dielectric Strength, Short Time, 1.5 mm	IEC 60243-1	kV/mm	150
Surface Resistivity	IEC 62631-3-1	Ohm	>1013

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Property, Test Condition	Standard	Unit	Values
Optical Properties			
Haze	ASTM D 1003	%	0.5
Light Transmission at 550 nm	ASTM D 1003	%	89.4
Other Properties			
Density	ISO 1183	kg/m ³	1.04
Bulk Density (with external lubricant)	-	kg/m ³	0.6
Water Absorption, Saturated at 23 °C	ISO 62	%	0.04
UL94 rating at 1.5 mm thickness	IEC 60695-11-10	-	HB
Processing			
Linear Mold Shrinkage	ISO 294-4	%	0.4 - 0.7
Drying Temperature	-	°C	70
Drying Time	-	h	2
Max Service Temperature	-	°C	240

Typical values for uncolored products

Please note that all processing data stated are only indicative and may vary depending on the individual processing complexities.

Please consult our local sales or technical representatives for details.

SUPPLY FORM

INEOS STYROLUTION 1441 has both the internal and the external additives for improving conveying and molding. The manners of packing are 25kg bags and 800kg bulk bags.

PROCESSING

INEOS STYROLUTION 1441 can be processed by all methods normally used for polystyrene. It can be injected very easily in many different parameter systems despite its high melt flow property.

PRODUCT SAFETY

There are very few dusts in the bags when you open the package. They are come from the external additives and the process of the production. The dusts are very safe for both the health and explosion prevention and projection.

DISCLAIMER

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The above mentioned data are accurate to the best of our knowledge. They are based upon reputable labs and industry standard testing methods. These are only typical values and actual product specification may deviate at industrial range. Therefore, no data in this technical data sheet shall constitute a warranty or representation regarding product features, fitness of the product for a specific purpose or application or its processability. INEOS Styrolution disclaims all liability in connection therewith. The customer himself is required to verify whether or not the product is suitable for the further processing or application intended and whether or not the product complies with the relevant statutory requirements. Unless explicitly and individually otherwise agreed in writing, INEOS Styrolution's sole and exclusive liability with respect to its products is set forth in INEOS Styrolution's General Terms and Conditions for Sale.