

GPPS Taxed 1080

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TECHNICAL DATASHEET

DESCRIPTION

INEOS STYROLUTION 1080 is a high strength, high heat resistant crystal polystyrene, designed for foaming and injection applications.

FEATURES

- High Strength
- High Heat Resistant
- Foaming and Injection

APPLICATIONS

- Foaming applications (XPS/EPS)
- Household parts

Property, Test Condition	Standard	Unit	Values
Rheological Properties			
Melt Flow Rate, 200 °C/5 kg	ISO 1133	g/10 min	2.8
Melt Volume Rate, 200 °C/5 kg	ISO 1133	cm ³ /10 min	2.7
Mechanical Properties			
Izod Unnotched Impact Strength, 23 °C	ISO 180	kJ/m ²	8.5
Tensile Stress at Break, 23 °C	ISO 527	MPa	40
Tensile Modulus	ISO 527	MPa	2650
Flexural Strength, 23 °C	ISO 178	MPa	85
Elongation at Break (MD)	ISO 527	%	2.5
Flexural Modulus, 23 °C	ISO 178	MPa	2950
Hardness, Rockwell	-	L Scale	70
Thermal Properties			
Vicat Softening Temperature, VST/A/50 (10N, 50 °C/h)	ISO 306	°C	100
Vicat Softening Temperature VST/B/50 (50N, 50 °C/h)	ISO 306	°C	96
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
Optical Properties			

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Property, Test Condition	Standard	Unit	Values
Haze	ASTM D 1003	%	0.4
Light Transmission at 550 nm	ASTM D 1003	%	90.5
Other Properties			
Density	ISO 1183	kg/m ³	1.04
Water Absorption, Saturated at 23 °C	ISO 62	%	0.04
UL94 rating at 1.5 mm thickness	IEC 60695-11-10	-	HB
Bulk Density (with external lubricant)	-	kg/m ³	0.6
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 1080 has both the internal and the external additives for improving conveying. The manners of packing are 25kg bags and 800kg bulk bags.

PROCESSING

INEOS STYROLUTION 1080 can be processed by all methods normally used for polystyrene. It is well balanced in its flow characteristic and heat resistance. It can be used as a foam extrusion and a normal injection material.

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.