

Technical Data Sheet

Diamond POLYSTYRENE PS 3010-01 NATURAL



Polystyrene, High Impact

Product Description

PS 3010-01 is a high impact grade of polystyrene characterized by good impact and processability. PS 3010 is widely used in the manufacture of housewares, toys, containers, appliance parts, speaker housings, and various types of extrusions.

Regulatory Status

For regulatory compliance information, see POLYSTYRENE PS 3010-01 NATURAL [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	North America
Processing Method	Extrusion; Injection Molding
Attribute	Good Impact Resistance; Good Processability
Application	Appliance Components; Containers; Household Goods; Housings; Toys

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (200 °C/5.0 kg)	3.0	g/10 min	ASTM D1238
Density - Specific Gravity, (No Standard)	1.04	g/cm ³	ASTM D792
Mechanical			
Tensile Strength at Break	26.9	MPa	ASTM D638
Flexural Modulus	1930	MPa	ASTM D790
Tensile Elongation at Break	45	%	ASTM D638
Tensile Modulus	1590	MPa	ASTM D638
Impact			
Notched Izod Impact	110	J/m	ASTM D256
Hardness			
Rockwell Hardness, (L-Scale)	47		ASTM D785
Thermal			
Vicat Softening Temperature	85	°C	ASTM D1525
Deflection Temperature Under Load Annealed (264 psi)	81.1	°C	ASTM D648

Notes

These are typical property values not to be construed as specification limits.

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

© LyondellBasell Industries Holdings, B.V. 2018

Disclaimer

Information in this document is accurate to the best of our knowledge at the date of publication. The document is designed to provide users general information for safe handling, use, processing, storage, transportation, disposal and release and does not constitute any warranty or quality specification, either express or implied, including any warranty of merchantability or fitness for any particular purpose. Users shall determine whether the product is suitable for their use and can be used safely and legally.

In addition to any prohibitions of use specifically noted in this document, LyondellBasell may further prohibit or restrict the sale of its products into certain applications. For further information, please contact a LyondellBasell representative.

Trademarks

The Trademark referenced within the product name is owned or used by the LyondellBasell family of companies.