

Technical Data Sheet



Asi Polystyrene 3020-01

High Impact Polystyrene
LyondellBasell Industries
Distribution

Product Description

PS 3020-01 is a high impact polystyrene used in applications requiring high impact and stiffness. PS 3020-01 is widely used in profile extrusions and packaging applications.

General

Material Status	• Commercial: Active		
Availability	• North America		
Features	• Good Impact Resistance	• Good Processability	
Uses	• Appliance Components • Containers	• Household Goods • Housings	• Toys
Processing Method	• Extrusion	• Injection Molding	

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.04	1.04 g/cm ³	
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	2.5 g/10 min	2.5 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	290000 psi	2000 MPa	ASTM D638
Tensile Strength (Break)	3800 psi	26.2 MPa	ASTM D638
Tensile Elongation (Break)	35 %	35 %	ASTM D638
Flexural Modulus	305000 psi	2100 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact	2.5 ft·lb/in	130 J/m	ASTM D256
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Rockwell Hardness (L-Scale)	59	59	ASTM D785
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load 264 psi (1.8 MPa), Annealed	180 °F	82.2 °C	ASTM D648
Vicat Softening Temperature	190 °F	87.8 °C	ASTM D1525

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.

Product Storage and Handling

- Product should be stored in dry conditions at temperatures below 50°C and protected from UV-light
- Improper storage may bring damage to the packaging and can negatively affects on the quality of this product
- Keep material completely dry for good processing

Company Information

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

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