

Technical Data Sheet



Asi Polypropylene PP 1277A-01

Polypropylene Impact Copolymer
LyondellBasell Industries
Distribution

Product Description

PP 1277A-01 is a low-flow, high-impact polypropylene for film, profile, tubing and coating, which require a material with the physical properties typical of those summarized below:

General

Material Status	• Commercial: Active		
Availability	• North America		
Features	• High Impact Resistance	• Impact Copolymer	• Low Flow
Uses	• Coating Applications • Film	• Profiles • Tubing	
Forms	• Pellets		
Processing Method	• Blow Molding • Compounding	• Extrusion • Sheet Extrusion	

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	0.900	0.898 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.80 g/10 min	0.80 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength ¹ (Break)	3000 psi	20.7 MPa	ASTM D638
Tensile Elongation (Yield)	10 %	10 %	ASTM D638
Flexural Modulus	145000 psi	1000 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (73°F (23°C))	No Break	No Break	ASTM D256
Unnotched Izod Impact (73°F (23°C))	No Break	No Break	ASTM D4812
Gardner Impact (73°F (23°C))	300 in.-lb	33.9 J	ASTM D5420
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Rockwell Hardness (R-Scale)	80	80	ASTM D785
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed	76.0 °F	24.4 °C	
264 psi (1.8 MPa), Unannealed	50.0 °F	10.0 °C	

Notes

¹ 2.0 in/min (51 mm/min)

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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