

Technical Data Sheet



Diamond Asa TWP-155

Acrylonitrile Styrene Acrylate
LyondellBasell Industries
Engineering Plastics

General			
Material Status	• Commercial: Active		
Availability	• North America		
Features	• Good Weather Resistance • UV Resistant		
Appearance	• Clear/Transparent		
Forms	• Pellets		
Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.16	1.16 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) ¹			ASTM D1238
200°C/5.0 kg	2.1 g/10 min	2.1 g/10 min	
230°C/3.8 kg	14 g/10 min	14 g/10 min	
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength ² (Yield)	8450 psi	58.3 MPa	ASTM D638
Flexural Modulus ³	339000 psi	2340 MPa	ASTM D790B
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (0.125 in (3.18 mm))	0.60 ft-lb/in	32 J/m	ASTM D256A
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Rockwell Hardness (R-Scale)	119	119	ASTM D785
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Unannealed, 0.125 in (3.18 mm)	149 °F	65.0 °C	
Vicat Softening Temperature	203 °F	95.0 °C	ASTM D1525 ⁴
Optical	Nominal Value (English)	Nominal Value (SI)	Test Method
Light Transmittance (118.1 mil (3000 µm))	85.5 %	85.5 %	ASTM D1003
Haze (118.1 mil (3000 µm))	7.60 %	7.60 %	ASTM D1003

Notes

- ¹ Procedure A
² 2.0 in/min (51 mm/min)
³ Method I (3 point load), 0.050 in/min (1.3 mm/min)
⁴ Loading 1 (10 N)

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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