

Technical Data Sheet

**Qr Resin QR-0102**

Acrylonitrile Styrene Acrylate
LyondellBasell Industries
Engineering Plastics

General

Material Status	• Commercial: Active		
Availability	• North America		
Features	• Good Impact Resistance • Good Toughness	• Good Weather Resistance • UV Resistant	
Appearance	• Black	• Colors Available	
Forms	• Pellets		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.05 to 1.07	1.05 to 1.07 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	2.0 g/10 min	2.0 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield)	6000 psi	41.4 MPa	ASTM D638
Flexural Modulus	300000 psi	2070 MPa	ASTM D790
Flexural Strength (Yield)	9000 psi	62.1 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (73°F (23°C))	4.0 ft·lb/in	210 J/m	ASTM D256
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed	200 °F	93.3 °C	
264 psi (1.8 MPa), Unannealed	180 °F	82.2 °C	

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Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	175 °F	79 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Drying Time, Maximum	4.0 hr	4.0 hr
Rear Temperature	450 to 520 °F	232 to 271 °C
Middle Temperature	450 to 520 °F	232 to 271 °C
Front Temperature	450 to 520 °F	232 to 271 °C
Nozzle Temperature	460 to 540 °F	238 to 282 °C
Processing (Melt) Temp	460 to 550 °F	238 to 288 °C
Mold Temperature	110 to 160 °F	43 to 71 °C

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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