

Technical Data Sheet

**Qr Resin QR 2005-BK(RB)**

Acrylonitrile Butadiene Styrene
LyondellBasell Industries
Engineering Plastics

Product Description

Available with either high or low gloss.

General

Material Status	• Experimental: Active		
Availability	• North America		
Features	• Good Impact Resistance		
Appearance	• Colors Available	• Natural Color	
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.06	1.06 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	17 g/10 min	17 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield)	6660 psi	45.9 MPa	ASTM D638
Flexural Modulus	361000 psi	2490 MPa	ASTM D790
Flexural Strength (Yield)	10200 psi	70.3 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (73°F (23°C))	2.9 ft-lb/in	150 J/m	ASTM D256

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Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	200 °F	93 °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	370 to 410 °F	188 to 210 °C
Middle Temperature	400 to 410 °F	204 to 210 °C
Front Temperature	420 to 460 °F	216 to 238 °C
Nozzle Temperature	> 420 °F	> 216 °C
Processing (Melt) Temp	420 to 500 °F	216 to 260 °C
Mold Temperature	120 to 160 °F	49 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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