

Technical Data Sheet

Qr Resin QR-2010

Acrylonitrile Butadiene Styrene
LyondellBasell Industries
Engineering Plastics

Product Description

Available with either high or low gloss.

General

Features	• High Flow	• High Heat Resistance
Appearance	• Colors Available	• Natural Color
Forms	• Pellets	
Processing Method	• Injection Molding	

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.05	1.05 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 Kg)	10 g/10 min	10 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield)	7600 psi	52.4 MPa	ASTM D638
Flexural Modulus	355000 psi	2450 MPa	ASTM D790
Flexural Strength (Yield)	11500 psi	79.3 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (73°F (23°C))	5.0 ft·lb/in	270 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	205 °F	96.1 °C	
264 Psi (1.8 Mpa), Unannealed	185 °F	85.0 °C	

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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	380 to 450 °F	193 to 232 °C
Middle Temperature	410 to 480 °F	210 to 249 °C
Front Temperature	430 to 480 °F	221 to 249 °C
Nozzle Temperature	450 to 520 °F	232 to 271 °C
Processing (Melt) Temp	450 to 520 °F	232 to 271 °C
Mold Temperature	120 to 180 °F	49 to 82 °C

Notes

These are typical property values not to be construed as specification limits.