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/cm³	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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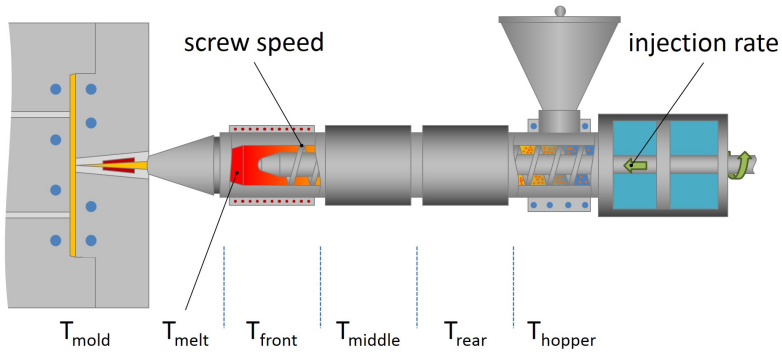

Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	200 °F	93 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Drying Time, Maximum	4.0 hr	4.0 hr
Rear Temperature	380 to 450 °F	193 to 232 °C
Middle Temperature	410 to 480 °F	210 to 249 °C
Front Temperature	430 to 480 °F	221 to 249 °C
Nozzle 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.