Technical Data Sheet

Qr Resin QR-2000-GF30

Acrylonitrile Butadiene Styrene
LyondellBasell Industries
Engineering Plastics

General		
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight	
Features	• High Heat Resistance	
Appearance	• Colors Available	• Grey
Forms	• Pellets	
Processing Method	• Injection Molding	

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.20	1.20 g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°c/3.8 Kg)	3.0 g/10 min	3.0 g/10 min	ASTM D1238
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Strength (Break)	15000 psi	103 MPa	ASTM D638
Tensile Elongation (Break)	1.2 %	1.2 %	ASTM D638
Flexural Modulus	1.09E+6 psi	7520 MPa	ASTM D790
Flexural Strength (Break)	24000 psi	165 MPa	ASTM D790
Impact	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Notched Izod Impact (73°f (23°c))	0.80 ft·lb/in	43 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	220 °F	104 °C	
264 Psi (1.8 Mpa), Unannealed	210 °F	98.9 °C	

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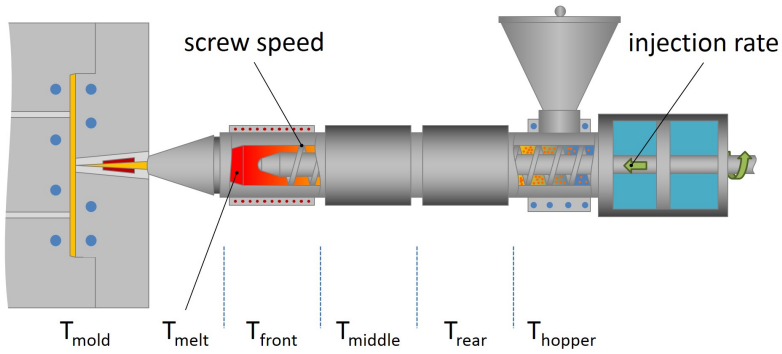

Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	200 °F	93 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Drying Time, Maximum	4.0 hr	4.0 hr
Rear Temperature	370 to 410 °F	188 to 210 °C
Middle Temperature	400 to 440 °F	204 to 227 °C
Front Temperature	420 to 460 °F	216 to 238 °C
Nozzle Temperature	420 to 500 °F	216 to 260 °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.