Technical Data Sheet

Diamaloy QR-1220LG(V)-DX9BLK

Polycarbonate + ABS

Product Description

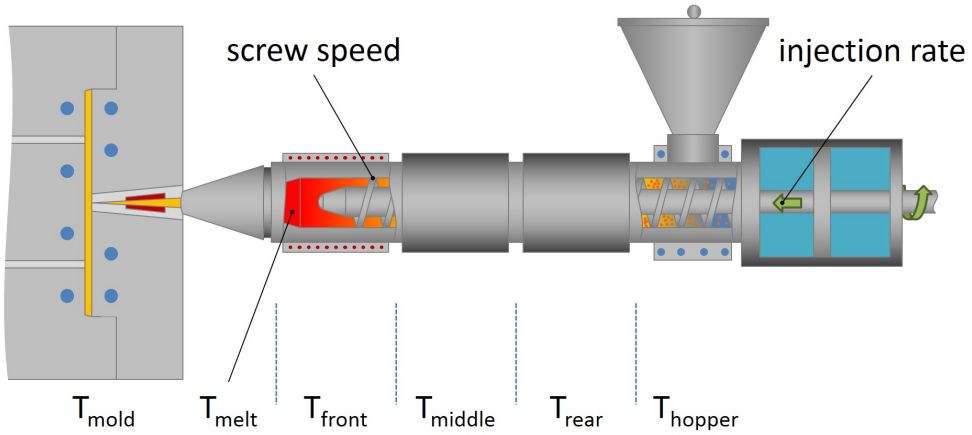
Diamaloy QR-1220LG(V)-DX9BLK is a Polycarbonate + ABS material and is typically used in Injection Molding applications. Features include: Good Impact Resistance, Low Gloss, and UV Resistant.

Regulatory Status

For regulatory compliance information, see QR-1220LG(V)-DX9BLK Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

Status	Commercial: Active
Availability	North America
Processing Method	Injection Molding
Attribute	Good Impact Resistance; Low Gloss; UV Resistant
Forms	Pellets
Appearance	Black; Colors Available; Natural Color

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (260 °C/5.0 kg)	20	g/10 min	ASTM D1238
Melt Volume Flow Rate	27	cm³/10 min	ISO 1133
Density	1.13	g/cm³	ISO 1183
Density - Specific Gravity	1.14	g/cm³	ASTM D792
Mechanical			
Tensile Strength at Yield	53.1	MPa	ASTM D638
Flexural Strength at Yield	84.1	MPa	ASTM D790
Tensile Stress at Yield	55.9	MPa	ISO 527-2
Flexural Modulus	2210	MPa	ASTM D790
Tensile Elongation at Break	80	%	ASTM D638
Tensile Modulus	2440	MPa	ISO 527-1
Impact			
Charpy Impact Strength - Notched, (23 °C)	44	kJ/m²	ISO 179
Unnotched Izod Impact Strength, (23 °C)	45	kJ/m²	ISO 180
Notched Izod Impact, (23 °C)	530	J/m	ASTM D256
Thermal			
Deflection Temperature Under Load Unannealed (1.80 MPa)	103	°C	ISO 75-2/A
Deflection Temperature Under Load Unannealed (264 psi)	107	°C	ASTM D648
Deflection Temperature Under Load Unannealed (66 psi)	124	°C	ASTM D648
UL Information			
Flame Rating, (1.5 mm)	HB		UL 94



Injection Parameters	Nominal Value	Units
Drying Time	2.0 to 4.0	hr
Drying Temperature	74	°C
Nozzle Temperature	243 to 271	°C
Processing (Melt) Temp	249 to 260	°C
Front Temperature	243 to 271	°C
Middle Temperature	243 to 271	°C
Rear Temperature	227 to 254	°C
Mold Temperature	38 to 71	°C

Notes

These are typical property values not to be construed as specification limits. The typical values for this product may have been tested on a natural grade.

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.

Company Information

For further information regarding the LyondellBasell company, please visit http://www.lyb.com/.

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