

Technical Data Sheet

Diamaloy QR-4000GF10-BKBLK



Polyphenylene Ether + PS + PA

Product Description

Diamaloy QR-4000GF10-BKBLK is a Polyphenylene Ether + PS + PA Glass Fiber, 10% filled material and is typically used in Injection Molding applications. Features include: Chemical Resistant, Good Stiffness, and High Heat Resistance.

Regulatory Status

For regulatory compliance information, see QR-4000GF10-BKBLK [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status	Discontinued
Availability	North America
Processing Method	Injection Molding
Attribute	Good Chemical Resistance; Good Stiffness; High Heat Resistance
Forms	Pellets
Appearance	Black; Colors Available
Filler/Reinforcement	Glass Fiber, 10%

Typical Properties	Nominal Value	Units	Test Method
Physical			
Density - Specific Gravity	1.17	g/cm ³	ASTM D792
Mechanical			
Tensile Strength at Yield	66.2	MPa	ASTM D638
Flexural Strength at Yield	152	MPa	ASTM D790
Flexural Modulus	2900	MPa	ASTM D790
Tensile Elongation at Break	10	%	ASTM D638
Impact			
Notched Izod Impact			
(23 °C)	69	J/m	ASTM D256
(-29 °C)	53	J/m	ASTM D256
Thermal			
Deflection Temperature Under Load Unannealed (264 psi)	177	°C	ASTM D648
Deflection Temperature Under Load Unannealed (66 psi)	232	°C	ASTM D648



Injection Parameters	Nominal Value	Units
Drying Time	4.0 to 8.0	hr
Drying Temperature	107	°C
Nozzle Temperature	282 to 299	°C
Processing (Melt) Temp	282 to 299	°C
Front Temperature	277 to 299	°C
Middle Temperature	271 to 299	°C
Rear Temperature	266 to 299	°C
Mold Temperature	77 to 116	°C
Drying Time, Maximum	8	hr

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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