

Technical Data Sheet

Polyflam 50S5302NCBLK



Polycarbonate

Product Description

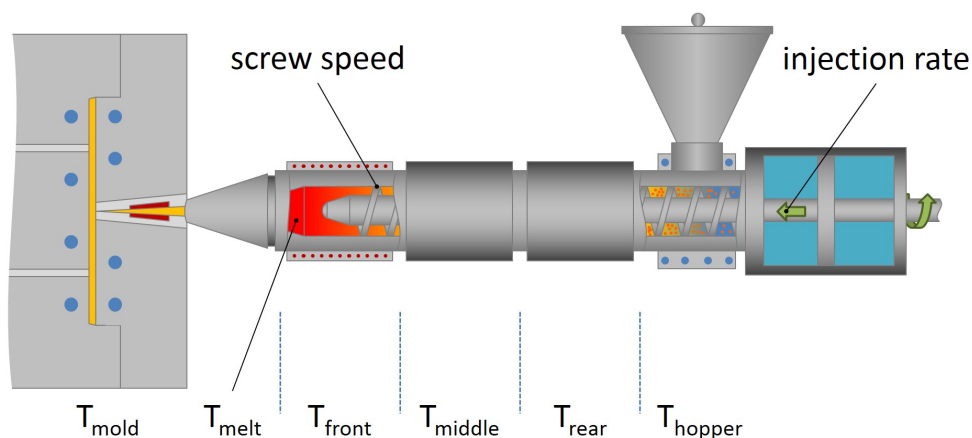
Polyflam 50S5302NCBLK is a Polycarbonate Glass Fiber, 30% filled material and is typically used in Injection Molding applications.

Regulatory Status

For regulatory compliance information, see 50S5302NCBLK [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	North America
Processing Method	Injection Molding
Forms	Pellets
Filler/Reinforcement	Glass Fiber, 30%

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (300 °C/1.2 kg)	10	g/10 min	ASTM D1238
Density - Specific Gravity	1.43	g/cm ³	ASTM D792
Mechanical			
Tensile Strength at Yield	114	MPa	ASTM D638
Flexural Modulus	6890	MPa	ASTM D790
Impact			
Notched Izod Impact	110	J/m	ASTM D256
Thermal			
Deflection Temperature Under Load Unannealed (264 psi)	146	°C	ASTM D648
Deflection Temperature Under Load Unannealed (66 psi)	152	°C	ASTM D648
RTI Str	93.3	°C	UL 746B
UL Information			
Flame Rating, (1.5 mm)	HB		UL 94



Injection Parameters	Nominal Value	Units
Drying Time	4.0 to 6.0	hr
Drying Temperature	121	°C
Screw Speed	40 to 75	rpm
Processing (Melt) Temp	293 to 321	°C
Front Temperature	282 to 310	°C
Middle Temperature	282 to 310	°C
Rear Temperature	282 to 310	°C
Injection Rate	Slow-Moderate	
Back Pressure	0.345 to 0.689	MPa
Mold Temperature	71 to 104	°C
Cushion	6.35 to 12.7	mm

Notes

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

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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