

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.

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