

Technical Data Sheet

Polyflam 12N4006NCBLK

Polypropylene, Unspecified (PP, Unspecified)

Product Description

Medium Flow, High Impact, Flame Retardant Polypropylene

Attribute High Impact Resistance

Forms Pellets

Additive Flame Retardant

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	6.5	g/10 min	ASTM D1238
Density - Specific Gravity	0.938	g/cm ³	ASTM D792
Mechanical			
Tensile Strength at Yield	20.7	MPa	ASTM D638
Flexural Modulus, (Tangent)	1030	MPa	ASTM D790
Impact			
Notched Izod Impact	No Break		ASTM D256
Thermal			
Deflection Temperature Under Load Unannealed (66 psi)	82.2	°C	ASTM D648
RTI Elec, (1.5 to 3.0 mm)	115	°C	UL 746B
RTI Imp, (1.5 to 3.0 mm)	115	°C	UL 746B
RTI Str, (1.5 to 3.0 mm)	115	°C	UL 746B
UL Information			
Flame Rating			
(1.5 mm)	V-2		UL 94
(3.0 mm)	V-2		UL 94
UL File Number	E51193		

Injection Parameters	Nominal Value	Units
Drying Time	4	hr
Drying Temperature	82	°C
Nozzle Temperature	177 to 227	°C
Processing (Melt) Temp	182 to 227	°C
Front Temperature	177 to 227	°C
Middle Temperature	177 to 227	°C
Rear Temperature	177 to 216	°C
Injection Rate	Slow-Moderate	
Back Pressure	<0.689	MPa
Mold Temperature	32 to 66	°C
Cushion	6.35 to 12.7	mm