

Technical Data Sheet

Polyflam 12N4012NN5005GRN



Polypropylene, Unspecified (PP, Unspecified)

Product Description

Polyflam 12N4012NN5005GRN is a Polypropylene, Unspecified material.

Forms Pellets
Additive Flame Retardant

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	8.0	g/10 min	ASTM D1238
Density - Specific Gravity	0.928	g/cm ³	ASTM D792
Mechanical			
Tensile Strength at Yield	30.3	MPa	ASTM D638
Flexural Modulus	1280	MPa	ASTM D790
Impact			
Gardner Impact	16.9	J	ASTM D5420
Notched Izod Impact	80	J/m	ASTM D256
Thermal			
Deflection Temperature Under Load Unannealed (66 psi)	90.6	°C	ASTM D648
RTI Elec	110	°C	UL 746B
RTI Imp	110	°C	UL 746B
RTI Str	110	°C	UL 746B
UL Information			
Flame Rating, (1.5 mm)	V-2		UL 94

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