

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
<b>Physical</b>			
Melt Flow Rate, (230 °C/2.16 kg)	8.0	g/10 min	ASTM D1238
Density - Specific Gravity	0.928	g/cm <sup>3</sup>	ASTM D792
<b>Mechanical</b>			
Tensile Strength at Yield	30.3	MPa	ASTM D638
Flexural Modulus	1280	MPa	ASTM D790
<b>Impact</b>			
Gardner Impact	16.9	J	ASTM D5420
Notched Izod Impact	80	J/m	ASTM D256
<b>Thermal</b>			
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
<b>UL Information</b>			
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