

Technical Data Sheet

Polyflam MATRIXX 55N5006N WHI



Polycarbonate

Product Description

Polyflam MATRIXX 55N5006N WHI is a Polycarbonate material.

Forms Pellets
Additive Flame Retardant

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (300 °C/1.2 kg)	12	g/10 min	ASTM D1238
Density - Specific Gravity	1.23	g/cm³	ASTM D792
Mechanical			
Tensile Strength at Yield	60.7	MPa	ASTM D638
Flexural Modulus, (Tangent)	2240	MPa	ASTM D790
Impact			
Gardner Impact	>36.2	J	ASTM D5420
Notched Izod Impact	690	J/m	ASTM D256
Thermal			
Deflection Temperature Under Load Unannealed (264 psi)	127	°C	ASTM D648
Deflection Temperature Under Load Unannealed (66 psi)	129	°C	ASTM D648
RTI Str	115	°C	UL 746B
UL Information			
Flame Rating			
(1.5 mm)	V-0		UL 94
(3.0 mm)	5V		UL 94
(2.5 mm)	5VA		UL 94

Injection Parameters	Nominal Value	Units
Drying Time	4	hr
Drying Temperature	121	°C
Screw Speed	40 to 75	rpm
Processing (Melt) Temp	282 to 299	°C
Front Temperature	249 to 299	°C
Middle Temperature	249 to 299	°C
Rear Temperature	249 to 299	°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