

# Polyflam MATRIXX 55N5006N WHI

## LyondellBasell Industries - Polycarbonate

### General Information

#### Product Description

Polyflam MATRIXX 55N5006N WHI is a Polycarbonate material.

#### General

Additive	• Flame Retardant
Features	• Flame Retardant
Forms	• Pellets

### Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.23		ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	12	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	8800	psi	ASTM D638
Flexural Modulus - Tangent	325000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	13	ft-lb/in	ASTM D256
Gardner Impact	> 320	in-lb	ASTM D5420
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	264	°F	ASTM D648
Deflection Temperature Under Load 264 psi, Unannealed	261	°F	ASTM D648
RTI Str	239	°F	UL 746B
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.06 in	V-0		
0.12 in	5V		
0.10 in	5VA		

### Processing Information

Injection	Nominal Value	Unit
Drying Temperature	250	°F
Drying Time	4.0	hr
Rear Temperature	480 to 570	°F
Middle Temperature	480 to 570	°F
Front Temperature	480 to 570	°F
Processing (Melt) Temp	540 to 570	°F
Mold Temperature	160 to 219	°F
Injection Rate	Slow-Moderate	
Back Pressure	50.0 to 99.9	psi
Screw Speed	40 to 75	rpm
Cushion	0.250 to 0.500	in