

Technical Data Sheet

Polyflam MATRIXX 55N5006N WHI



Polycarbonate

Product Description

Polyflam MATRIXX 55N5006N WHI is a Polycarbonate material.

Regulatory Status

For regulatory compliance information, see MATRIXX 55N5006N WHI [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	North America
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/cm ³	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

Notes

These are typical property values not to be construed as specification limits.

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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