

**Matrixx 54N5006**

PC

LyondellBasell Industries

<b>Processing/Physical Characteristics</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
Melt Flow Index, MFI	<b>10</b>	g/10min	ASTM D 1238
Temperature	<b>300</b>	°C	-
Load	<b>1.2</b>	kg	-
Mold Shrinkage, MD	<b>0.006</b>	mm/mm	ASTM D 955
<b>Mechanical properties</b>			
<b>ASTM Data</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Tensile Strength at Yield	<b>60.7</b>	MPa	ASTM D 638
Flexural Modulus	<b>2240</b>	MPa	ASTM D 790
Gardner Impact	<b>36.2</b>	J	ASTM D 2794,4226,5420
Izod Impact notched, 1/8 in	<b>690</b>	J/m	ASTM D 256
<b>Thermal properties</b>			
<b>ISO Data</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Burning behav. 5V at thickness h	<b>5VA</b>	class	IEC 60695-11-20
Thickness tested	<b>2.5</b>	mm	-
<b>ASTM Data</b>			
UL 94 Flame rating	<b>V-0</b>	-	UL 94
Thickness tested	<b>1.5</b>	mm	-
DTUL @ 66 psi	<b>129</b>	°C	ASTM D 648
DTUL @ 264 psi	<b>127</b>	°C	ASTM D 648
<b>Other properties</b>			
<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>	
Density	<b>1230</b>	kg/m <sup>3</sup>	ASTM D 792
<b>Processing Recommendation Injection Molding</b>			
<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>	
Pre-drying - Temperature	<b>121</b>	°C	-
Pre-drying - Time	<b>4</b>	h	-
Melt temperature	<b>282 - 299</b>	°C	-
Mold temperature	<b>71 - 104</b>	°C	-
Zone 1	<b>249 - 299</b>	°C	-
Zone 2	<b>249 - 299</b>	°C	-
Zone 3	<b>249 - 299</b>	°C	-
Screw speed	<b>40 - 75</b>	rpm	-
Back pressure	<b>0.345 - 0.689</b>	MPa	-

**Characteristics****Processing**

Injection Molding

**Special Characteristics**

Flame retardant

**Delivery form**

Pellets

**Regional Availability**

North America