

**Ryton® R-4-232NA**

PPS-GF40

Syensqo

<b>Processing/Physical Characteristics</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
Mold Shrinkage, MD	<b>0.002</b>	mm/mm	ASTM D 955
Mold Shrinkage, TD	<b>0.005</b>	mm/mm	ASTM D 955
<b>Mechanical properties</b>			
<b>ISO Data</b>			
Tensile Strength	<b>170</b>	MPa	ISO 527
Strain at break	<b>1.3</b>	%	ISO 527
Flexural modulus, 23°C	<b>14000</b>	MPa	ISO 178
Izod impact strength, +23°C	<b>25</b>	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C	<b>9</b>	kJ/m <sup>2</sup>	ISO 180/1A
<b>ASTM Data</b>			
Tensile Strength	<b>179</b>	MPa	ASTM D 638
Elongation at Break	<b>1.2</b>	%	ASTM D 638
Compressive Strength	<b>275</b>	MPa	ASTM D 695
Flexural Modulus	<b>14500</b>	MPa	ASTM D 790
Flexural Strength	<b>228</b>	MPa	ASTM D 790
Rockwell Hardness	<b>M 104</b>	-	ASTM D 785
Izod Impact notched, 1/8 in	<b>91</b>	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	<b>450</b>	J/m	ASTM D 256
<b>Thermal properties</b>			
<b>ISO Data</b>			
Burning behav. at thickness h	<b>V-0</b>	class	IEC 60695-11-10
Thickness tested	<b>0.4</b>	mm	-
Burning behav. 5V at thickness h	<b>5VA</b>	class	IEC 60695-11-20
Thickness tested	<b>1.5</b>	mm	-
<b>ASTM Data</b>			
DTUL @ 264 psi	<b>265</b>	°C	ASTM D 648
Limiting Oxygen Index	<b>50</b>	%	ASTM D 2863
<b>Electrical properties</b>			
<b>ASTM Data</b>			
Dielectric Strength, Short Time	<b>20</b>	kV/mm	ASTM D 149
Dissipation Factor, 1 MHz	<b>0.002</b>	-	ASTM D 150
Dielectric Constant, 1 MHz	<b>3.9</b>	-	ASTM D 150
Surface Resistivity	<b>&gt;1E15</b>	Ohm	ASTM D 257
Volume Resistivity	<b>&gt;1E15</b>	Ohm*cm	ASTM D 257
Arc Resistance	<b>125</b>	s	ASTM D 495
<b>Other properties</b>			
Water Absorption, 24hr	<b>0.02</b>	%	ASTM D 570
Density	<b>1680</b>	kg/m <sup>3</sup>	ASTM D 792

**Characteristics****Processing**

Injection Molding

**Delivery form**

Pellets

**Certifications**

Food contact, Food approval 10/2011, Food approval FDA 21 CFR

**Regional Availability**

North America, Europe, Asia Pacific, South and Central America, Near East/Africa