

Ryton® R-4-244NA

PPS-GF40

Syensqo

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.0022	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.0072	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	15900	MPa	ISO 527
Tensile Strength	212	MPa	ISO 527
Strain at break	1.8	%	ISO 527
Flexural modulus, 23°C	15100	MPa	ISO 178
Flexural strength	292	MPa	ISO 178
Izod impact strength, +23°C	42	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C	10	kJ/m ²	ISO 180/1A
ASTM Data			
Compressive Strength	158	MPa	ASTM D 695
Rockwell Hardness	R 123	-	ASTM D 785

Thermal properties	Value	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	285	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	270	°C	ISO 75-1/-2
ASTM Data			
UL 94 Flame rating	V-0	-	UL 94
Thickness tested	0.75	mm	-
Coefficient of Thermal Expansion, MD	11	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	120	E-6/K	ASTM D 696
Thermal Conductivity, solid state	0.29	W/(m K)	ASTM C 177

Electrical properties	Value	Unit	Test Standard
ISO Data			
Comparative tracking index	150	-	IEC 60112
ASTM Data			
Dielectric Strength, Short Time	470	kV/mm	ASTM D 149
Dissipation Factor, 1 MHz	0.001	-	ASTM D 150
Dielectric Constant, 1 MHz	3.8	-	ASTM D 150
Surface Resistivity	5.2E15	Ohm	ASTM D 257
Volume Resistivity	1.4E16	Ohm*cm	ASTM D 257
Arc Resistance	140	s	ASTM D 495

Other properties	Value	Unit	Test Standard
Water Absorption, 24hr	0.004	%	ASTM D 570
Density	1650	kg/m ³	ASTM D 792

Characteristics**Processing**

Injection Molding

Delivery form

Pellets, Natural Color

Certifications

Food contact, Food approval FDA 21 CFR, Drinking water contact, Drinking water contact KTW, Drinking water contact NSF 61, RoHS compliant

Regional Availability

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