

Processing/Physical Characteristics	Value	Unit	Test Standard
Other Standards^{S1}			
Mold Shrinkage, MD	0.002	mm/mm	
Mold Shrinkage, TD	0.005	mm/mm	

S: These properties are reported by the producer according standards that are different to our defaults.

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Strength	185	MPa	ISO 527
Strain at break	1.6	%	ISO 527
Flexural modulus, 23°C	14500	MPa	ISO 178
Flexural strength	265	MPa	ISO 178
Izod impact strength, +23°C	40	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C	9.5	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Strength	186	MPa	ASTM D 638
Elongation at Break	1.6	%	ASTM D 638
Compressive Strength	255	MPa	ASTM D 695
Flexural Modulus	14500	MPa	ASTM D 790
Flexural Strength	269	MPa	ASTM D 790
Rockwell Hardness	M 97	-	ASTM D 785
Izod Impact notched, 1/8 in	91	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	750	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ASTM Data			
UL 94 Flame rating	V-0	-	UL 94
Thickness tested	1.6	mm	-
DTUL @ 264 psi	265	°C	ASTM D 648
Limiting Oxygen Index	48	%	ASTM D 2863
Other Standards^{S1}			
Coefficient of Thermal Expansion, MD	14.4	E-6/K	ASTM E 831
Coefficient of Thermal Expansion, TD	39.6	E-6/K	ASTM E 831
Thermal Conductivity, solid state	0.33	W/(m K)	

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Electrical properties	Value	Unit	Test Standard
ASTM Data			
Dielectric Strength, Short Time	22	kV/mm	ASTM D 149
Dissipation Factor, 1 MHz	0.003	-	ASTM D 150
Dielectric Constant, 1 MHz	3.7	-	ASTM D 150
Surface Resistivity	1E16	Ohm	ASTM D 257
Volume Resistivity	1E16	Ohm*cm	ASTM D 257
Other Standards^{S1}			
Comparative tracking index	150	-	UL 746A

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Other properties	Value	Unit	Test Standard
Water Absorption, 24hr	0.02	%	ASTM D 570
Density	1760	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	135 - 150	°C	-
Pre-drying - Time	2 - 4	h	-
Melt temperature	320 - 330	°C	-
Mold temperature	135 - 150	°C	-
Zone 1	295 - 315	°C	-

Ryton® BR42B

PPS-GF40

Syensqo

Zone 2	305 - 325	°C	-
Zone 3	315 - 345	°C	-
Nozzle temperature	305 - 325	°C	-

Characteristics**Processing**

Injection Molding

Delivery form

Pellets, Natural Color

Features

Tribologic Grade

Certifications

RoHS compliant

Applications

Automotive, Electrical and Electronical

Regional Availability

North America, Europe, Asia Pacific, South and Central America