

Ryton® R-7-190BL

PPS-(GF+MX)

Syensqo

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.002	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.004	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Strength	140	MPa	ISO 527
Strain at break	1	%	ISO 527
Flexural modulus, 23°C	18000	MPa	ISO 178
Flexural strength	220	MPa	ISO 178
Charpy impact strength, +23°C	22	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	7	kJ/m ²	ISO 179/1eA
Izod impact strength, +23°C	20	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C	7	kJ/m ²	ISO 180/1A
Other Standards^[5]			
Compressive Strength	275	MPa	ISO 604

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

Thermal properties	Value	Unit	Test Standard
ISO Data			
Coeff. of linear therm. expansion, parallel	15	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	25	E-6/K	ISO 11359-1/-2
ASTM Data			
UL 94 Flame rating	V-0	-	UL 94
Thickness tested	1.6	mm	-
DTUL @ 264 psi	265	°C	ASTM D 648

Electrical properties	Value	Unit	Test Standard
ISO Data			
Comparative tracking index	250	-	IEC 60112
ASTM Data			
Dielectric Strength, Short Time	18	kV/mm	ASTM D 149
Dissipation Factor, 1 MHz	0.002	-	ASTM D 150
Dielectric Constant, 1 MHz	5	-	ASTM D 150
Volume Resistivity	1E16	Ohm*cm	ASTM D 257
Arc Resistance	185	s	ASTM D 495

Other properties	Value	Unit	Test Standard
Density	2000	kg/m ³	ISO 1183
Water Absorption, 24hr	0.02	%	ASTM D 570

Characteristics**Processing**

Injection Molding

Delivery form

Pellets, Black

Chemical Resistance

General Chemical Resistance

Certifications

RoHS compliant

Regional Availability

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