

Ryton® XE4050BL

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	135	MPa	ISO 527
Strain at break	1.9	%	ISO 527
Flexural modulus, 23°C	10000	MPa	ISO 178
Izod impact strength, +23°C	40	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C	8	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Strength	124	MPa	ASTM D 638
Elongation at Break	1.9	%	ASTM D 638
Compressive Strength	200	MPa	ASTM D 695
Flexural Modulus	10300	MPa	ASTM D 790
Flexural Strength	186	MPa	ASTM D 790
Rockwell Hardness	M 74	-	ASTM D 785
Izod Impact notched, 1/8 in	80	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	640	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Burning behav. at 1.5 mm nom. thickn. Thickness tested	V-0 1.6	class mm	IEC 60695-11-10 -
ASTM Data			
DTUL @ 264 psi	250	°C	ASTM D 648
Limiting Oxygen Index	25	%	ASTM D 2863

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Dielectric Strength, Short Time	20	kV/mm	ASTM D 149
Dissipation Factor, 1 MHz	0.008	-	ASTM D 150
Dielectric Constant, 1 MHz	4.2	-	ASTM D 150
Surface Resistivity	>1E15	Ohm	ASTM D 257
Volume Resistivity	1E14	Ohm*cm	ASTM D 257
Arc Resistance	130	s	ASTM D 495

Other properties	Value	Unit	Test Standard
Water Absorption, 24hr	0.05	%	ASTM D 570
Density	1680	kg/m ³	ASTM D 792

Characteristics**Delivery form**

Pellets

Special Characteristics

High impact or impact modified

Features

Ductile, Thermal Stability

Regional Availability

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