

Ryton® QC230N

Syensqo - Polyphenylene Sulfide

General Information

Product Description

Ryton® PPS Fiber Grade Resins are high molecular weight polyphenylene sulfide polymers suitable for monofilament and/or multifilament fiber extrusion. They exhibit excellent thermal stability and chemical resistance.

General

Features	<ul style="list-style-type: none"> Chemical Resistant Good Thermal Stability High Molecular Weight
Uses	<ul style="list-style-type: none"> Fibers
RoHS Compliance	<ul style="list-style-type: none"> RoHS Compliant
Forms	<ul style="list-style-type: none"> Powder
Processing Method	<ul style="list-style-type: none"> Filament Extrusion

Properties¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.35		ASTM D792
Melt Mass-Flow Rate (MFR) ² (316°C/5.0 kg)	230	g/10 min	ASTM D1238
Water Absorption (Equilibrium)	0.050	%	ASTM D570
Ash Content	0.30	wt%	ISO 3451-1
Volatiles (302°F)	< 0.30	wt%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	12300	psi	ASTM D638
Tensile Elongation (Break)	10	%	ASTM D638
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 264 psi, Unannealed	221	°F	ASTM D648
Melting Temperature	545	°F	ISO 11357-3
CLTE - Flow (-58 to 122°F)	2.8E-5	in/in/°F	ASTM E831
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Dielectric Strength	610	V/mil	ASTM D149
Dielectric Constant (77°F, 1 MHz)	3.20		ASTM D150
Dissipation Factor (77°F, 1 MHz)	2.0E-3		ASTM D150
Optical	Nominal Value	Unit	Test Method
Color L - Hunter	90.00		
Additional Information	Nominal Value	Unit	Test Method
Weight Loss on Heating (572°F)	< 0.50	wt%	

Notes

¹ Typical properties: these are not to be construed as specifications.

² Procedure B