Ryton® QC220N

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	• Chemical Resistant	• Good Thermal Stability	• High Molecular Weight
Uses	• Fibers		
RoHS Compliance	• RoHS Compliant		
Forms	• Powder		
Processing Method	• Filament Extrusion		

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.35		ASTM D792
Melt Mass-Flow Rate (MFR) [2] (316°C/5.0 kg)	170	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			ASTM D648
264 psi, Unannealed	221	°F	
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**	
Color L - Hunter	90.00		
Additional Information	**Nominal Value**	**Unit**	
Weight Loss on Heating (572°F)	< 0.50	wt%	

Notes

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

[2] Procedure B