

Ryton® QC220N

Polyphenylene Sulfide

Solvay Specialty Polymers

Message:

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 Information			
Features	Good Chemical Resistance		
	Good Thermal Stability		
	High Molecular Weight		
Uses	Fibers		
RoHS Compliance	RoHS Compliant		
Forms	Powder		
Processing Method	Filament Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.35	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) ¹ (316°C/5.0 kg)	170	g/10 min	ASTM D1238
Water Absorption (Equilibrium)	0.050	%	ASTM D570
Ash Content	0.3	wt%	ISO 3451-1
Color L - Hunter	90.0		
Volatiles (150°C)	< 0.3	wt%	
Weight Loss on Heating (300°C)	< 0.50	wt%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	85.0	MPa	ASTM D638
Tensile Elongation (Break)	10	%	ASTM D638
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	105	°C	ASTM D648
Melting Temperature	285	°C	ISO 11357-3
CLTE - Flow (-50 to 50°C)	5.0E-5	cm/cm/°C	ASTM E831
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms · cm	ASTM D257
Dielectric Strength	24	kV/mm	ASTM D149
Dielectric Constant (25°C, 1 MHz)	3.20		ASTM D150
Dissipation Factor (25°C, 1 MHz)	2.0E-3		ASTM D150
NOTE			
1.	Procedure B		

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