Ryton® QC210N
polyphenylene sulfide

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		
Material Status	• Commercial: Active	
Availability	• Asia Pacific • Europe	• Latin America • North America
Features	• Chemical Resistant • Good Thermal Stability	• High Molecular Weight
Uses	• Fibers	
RoHS Compliance	• RoHS Compliant	
Forms	• Powder	
Processing Method	• Filament Extrusion	

Physical	Typical Value	Unit	Test method
Density / Specific Gravity	1.35		ASTM D792
Melt Mass-Flow Rate (MFR) [1] (316°C/5.0 kg)	130	g/10 min	ASTM D1238
Water Absorption (Equilibrium)	0.050	%	ASTM D570
Ash Content	0.30	wt%	ISO 3451-1
Volatiles (150°C)	< 0.30	wt%	

Mechanical	Typical Value	Unit	Test method
Tensile Strength	85.0	MPa	ASTM D638
Tensile Elongation (Break)	10	%	ASTM D638

Thermal	Typical Value	Unit	Test method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed	105	°C	
Melting Temperature	285	°C	ISO 11357-3
CLTE - Flow (-50 to 50°C)	5.0E-5	cm/cm/°C	ASTM E831

Electrical	Typical 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

Optical	Typical Value	Unit
Color L - Hunter	90.00	

Ryton® QC210N
polyphenylene sulfide

Additional Information	Typical Value	Unit
Weight Loss on Heating (300°C)	< 0.50	wt%

Notes

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

[1] Procedure B

SYENSQO

www.syensqo.com

Safety Data Sheets (SDS) are available by emailing us or contacting your sales representative. Always consult the appropriate SDS before using any of our products.

Neither Syensqo nor any of its affiliates makes any warranty, express or implied, including merchantability or fitness for use, or accepts any liability in connection with this product, related information or its use. Some applications of which Syensqo's products may be proposed to be used are regulated or restricted by applicable laws and regulations or by national or international standards and in some cases by Syensqo's recommendation, including applications of food/feed, water treatment, medical, pharmaceuticals, and personal care. Only products designated as part of the Solviva® family of biomaterials may be considered as candidates for use in implantable medical devices. The user alone must finally determine suitability of any information or products for any contemplated use in compliance with applicable law, the manner of use and whether any patents are infringed. The information and the products are for use by technically skilled persons at their own discretion and risk and does not relate to the use of this product in combination with any other substance or any other process. This is not a license under any patent or other proprietary right.

All trademarks and registered trademarks are property of the companies that comprise the Syensqo or their respective owners.

© 2024 2023 Syensqo. All rights reserved.