Ryton® QC160P

Polyphenylene Sulfide

Solvay Specialty Polymers

Message:

Ryton® QC160P (pelletized) polyphenylene sulfide exhibits excellent thermal stability and chemical resistance and is suitable for thermoplastic extrusion processes.

General Information			
Features	Good Chemical Resistance Good Thermal Stability		
Uses	Film Stock Material for Machining		
RoHS Compliance	RoHS Compliant		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Extrusion		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.34	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) [1] (316°C/5.0 kg)	45	g/10 min	ASTM D1238
Water Absorption (23°C, 24 hr)	0.050	%	ASTM D570
Ash Content	0.3	wt%	ISO 3451-1
Volatiles (150°C)	< 0.3	wt%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	3400	MPa	ISO 527-2
Tensile Stress	75.0	MPa	ISO 527-2
Tensile Strain (Break)	6.0	%	ISO 527-2
Flexural Modulus	3400	MPa	ISO 178
Flexural Stress	130	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			
3.18 mm	53	J/m	ASTM D256
--	4.0	kJ/m²	ISO 180/A
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	160	°C	
1.8 MPa, Unannealed	95.0	°C	
Glass Transition Temperature	90.0	°C	ISO 11357-2
Vicat Softening Temperature	> 180	°C	ISO 306

Melting Temperature	280	°C	ISO 11357-3
CLTE - Flow			ASTM E831
-50 to 50°C	5.0E-5	cm/cm/°C	
100 to 200°C	1.2E-4	cm/cm/°C	
Thermal Conductivity	0.30	W/m/K	
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+16	ohms	ASTM D257
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
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (1.60 mm, Tested by CP Chemical)	V-0		UL 94
Oxygen Index	44	%	ASTM D2863
NOTE			
1.	Procedure B		

Recommended distributors for this material

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