

Ryton® R-4-232BL

Polyphenylene Sulfide

Solvay Specialty Polymers

Message:

Ryton® R-4-232BL 40% glass fiber reinforced polyphenylene sulfide compound complies with United States Food and Drug Administration (FDA), NSF51, and European Union (EU 10/2011) regulations for use as a component of articles intended for repeat use in contact with all types of foods. It has also been approved for drinking water systems by NSF61, KTW and ACS.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 40% filler by weight		
Features	Compliance of Food Exposure		
Uses	Home appliance components		
Agency Ratings	ACS not rated FDA Food Exposure, Not Rated KTW not rated NSF 51 NSF 61 Europe 10/1/2011 12:00:00 AM		
RoHS Compliance	RoHS compliance		
Appearance	Black		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.68	g/cm ³	ASTM D792
Molding Shrinkage			
Flow: 3.20mm	0.20	%	
Transverse flow: 3.20mm	0.50	%	
Water Absorption (23°C, 24 hr)	0.020	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			ASTM D785
Class m	104		ASTM D785
Class r	122		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	16100	MPa	ISO 527-2
Tensile Stress	145	MPa	ISO 527-2
Tensile Strain (Break)	1.1	%	ISO 527-2
Flexural Modulus	15900	MPa	ISO 178
Flexural Strength	230	MPa	ASTM D790
Compressive Strength	275	MPa	ASTM D695
Poisson's Ratio	0.43		ISO 527

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
3.18 mm	90	J/m	ASTM D256
--	8.7	kJ/m ²	ISO 180/A
Unnotched Izod Impact			
3.18 mm	370	J/m	ASTM D4812
--	26	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)			
	265	°C	ASTM D648
Linear thermal expansion coefficient			
			ASTM E831
Flow: 50 to 100°C	1.5E-5	cm/cm/°C	ASTM E831
Flow: 100 to 200°C	1.5E-5	cm/cm/°C	ASTM E831
Horizontal: 50°C	4.0E-5	cm/cm/°C	ASTM E831
Lateral: 100 to 200°C	8.0E-5	cm/cm/°C	ASTM E831
Thermal Conductivity	0.31	W/m/K	
UL Temperature Rating	200 - 220	°C	UL 746B
Flammability	Nominal Value		Test Method
Flame Rating			
			UL 94
0.39 mm	V-0		UL 94
1.5 mm	5VA		UL 94

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

