

Ryton® R-4-232NA

Polyphenylene Sulfide

Solvay Specialty Polymers

Message:

Ryton® R-4-232NA 40% glass fiber reinforced polyphenylene sulfide compound complies with United States Food and Drug Administration (FDA) and European Union (EU 10/2011 and 1183/2012) regulations for use as a component of articles intended for repeat use in contact with all types of foods.

General Information			
UL YellowCard	E95746-102108314		
Filler / Reinforcement	Glass Fiber,40% Filler by Weight		
Features	Food Contact Acceptable		
Uses	Appliance Components		
Agency Ratings	EU 10/2011		
	FDA Food Contact, Unspecified Rating		
RoHS Compliance	RoHS Compliant		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.68	g/cm³	ASTM D792
Molding Shrinkage			
Flow : 3.20 mm	0.20	%	
Across Flow : 3.20 mm	0.50	%	
Water Absorption (23°C, 24 hr)	0.020	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			ASTM D785
M-Scale	104		
R-Scale	122		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
--	179	MPa	ASTM D638
--	170	MPa	ISO 527-2
Tensile Elongation			
Break	1.2	%	ASTM D638
Break	1.3	%	ISO 527-2
Flexural Modulus			
--	14500	MPa	ASTM D790
--	14000	MPa	ISO 178
Flexural Strength			

--	228	MPa	ASTM D790
--	245	MPa	ISO 178
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	91	J/m	ASTM D256
--	9.0	kJ/m ²	ISO 180/A
Unnotched Izod Impact			
3.18 mm	450	J/m	ASTM D4812
--	25	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	265	°C	ASTM D648
CLTE			ASTM E831
Flow : -50 to 50°C	1.5E-5	cm/cm/°C	
Flow : 100 to 200°C	1.5E-5	cm/cm/°C	
Transverse : -50 to 50°C	4.0E-5	cm/cm/°C	
Transverse : 100 to 200°C	8.0E-5	cm/cm/°C	
Thermal Conductivity	0.31	W/m/K	
UL Temperature Rating	200 to 220	°C	UL 746B
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	20	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
25°C, 1 kHz	3.90		
25°C, 1 MHz	3.90		
Dissipation Factor			ASTM D150
25°C, 1 kHz	2.0E-3		
25°C, 1 MHz	2.0E-3		
Arc Resistance	125	sec	ASTM D495
Comparative Tracking Index (CTI)	150	V	UL 746
Insulation Resistance ¹ (90°C)	1.0E+12	ohms	
Flammability	Nominal Value	Unit	Test Method
	V-0		
Flame Rating (1.60 mm)	5VA		UL 94
Oxygen Index	50	%	ASTM D2863
NOTE			
1.	95%RH, 48 hr		

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