

Ryton® R-7-121NA

Polyphenylene Sulfide

Solvay Specialty Polymers

Message:

Ryton® R-7-121NA and R-7-121BL glass fiber and mineral filled polyphenylene sulfide compounds provide good mechanical strength with good flow and low maintenance molding using conventional molding equipment.

General Information			
UL YellowCard	E95746-102108327		
Filler / Reinforcement	Glass\Mineral		
Features	Good Flow		
	Good Strength		
Uses	Automotive Applications		
RoHS Compliance	RoHS Compliant		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.95	g/cm ³	ASTM D792
Molding Shrinkage			
Flow : 3.20 mm	0.20	%	
Across Flow : 3.20 mm	0.40	%	
Water Absorption (23°C, 24 hr)	0.020	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			ASTM D785
M-Scale	101		
R-Scale	118		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
--	131	MPa	ASTM D638
--	135	MPa	ISO 527-2
Tensile Elongation (Break)	1.0	%	ASTM D638, ISO 527-2
Flexural Modulus			
--	17200	MPa	ASTM D790
--	18000	MPa	ISO 178
Flexural Strength			
--	207	MPa	ASTM D790
--	210	MPa	ISO 178
Compressive Strength	285	MPa	ASTM D695

Poisson's Ratio	0.36		ISO 527
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
3.18 mm	59	J/m	ASTM D256
--	6.0	kJ/m ²	ISO 180/A
Unnotched Izod Impact			
3.18 mm	210	J/m	ASTM D4812
--	16	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	3.0E-5	cm/cm/°C	
Transverse : 100 to 200°C	7.0E-5	cm/cm/°C	
Thermal Conductivity	0.58	W/m/K	
UL Temperature Rating	220 to 240	°C	UL 746B
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+16	ohms	ASTM D257
Volume Resistivity	1.0E+15	ohms·cm	ASTM D257
Dielectric Strength	18	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
25°C, 1 kHz	4.80		
25°C, 1 MHz	4.90		
Dissipation Factor			ASTM D150
25°C, 1 kHz	4.0E-3		
25°C, 1 MHz	2.0E-3		
Arc Resistance	185	sec	ASTM D495
Comparative Tracking Index (CTI)	250	V	UL 746
Insulation Resistance ¹ (90°C)	1.0E+11	ohms	
Flammability	Nominal Value	Unit	Test Method
	V-0		
Flame Rating (1.60 mm)	5VA		UL 94
Oxygen Index	61	%	ASTM D2863
NOTE			
1.	95%RH, 48 hr		

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