

Ryton® R-7-120NA

Polyphenylene Sulfide

Solvay Specialty Polymers

Message:

Ryton® R-7-120NA and R-7-120BL glass fiber and mineral filled polyphenylene sulfide compounds provide good strength and low maintenance molding using conventional molding equipment.

General Information			
UL YellowCard	E95746-102108325		
Filler / Reinforcement	Glass\Mineral		
Features	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	1.99	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
--	140	MPa	ISO 527-2
Tensile Elongation (Break)	0.90	%	ASTM D638, ISO 527-2
Flexural Modulus			
--	19300	MPa	ASTM D790
--	19000	MPa	ISO 178
Flexural Strength			
--	207	MPa	ASTM D790
--	220	MPa	ISO 178
Compressive Strength	265	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
--	15	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	0.59	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	16	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
25°C, 1 kHz	4.90		
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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