

# Ryton® R-7-120BL polyphenylene sulfide

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.

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Commercial: Active		
Glass\Mineral		
Good Strength		
Automotive Applications		
RoHS Compliant		
<ul> <li>CHRYSLER MS-DB-570 CPN3243</li> <li>Color: Black</li> <li>FORD WSF-M4D803-A2</li> </ul>	GM GMP.PPS.002	
• Black		
• Pellets		
Injection Molding		
Typical Valu	ue Unit	Test method
1.9	99	ASTM D792
0.2	20 %	
0.4	10 %	
0.02	20 %	ASTM D570
Typical Valu	ue Unit	Test method
12	24 MPa	ASTM D638
13	35 MPa	ISO 527-2
0.0	90 %	ASTM D638
3.0	30 %	ISO 527-2
1930	00 MPa	ASTM D790
1900	00 MPa	ISO 178
20	7 MPa	ASTM D790
21	0 MPa	ISO 178
26	65 MPa	ASTM D695
0.3	36	ISO 527
	<ul> <li>Asia Pacific</li> <li>Europe</li> <li>Glass\Mineral</li> <li>Good Strength</li> <li>Automotive Applications</li> <li>RoHS Compliant</li> <li>CHRYSLER MS-DB-570 CPN3243 Color: Black</li> <li>FORD WSF-M4D803-A2</li> <li>Black</li> <li>Pellets</li> <li>Injection Molding</li> </ul> Typical Values <ul> <li>1.9</li> </ul> Typical Values <ul> <li>1.2</li> <li>1.3</li> </ul> Typical Values <ul> <li>1.9</li> <li>1.9</li> <li>1.9</li> </ul> Typical Values <ul> <li>1.9</li> <li>1.9</li></ul>	<ul> <li>Asia Pacific</li> <li>Europe</li> <li>North America</li> <li>Glass\Mineral</li> <li>Good Strength</li> <li>Automotive Applications</li> <li>RoHS Compliant</li> <li>CHRYSLER MS-DB-570 CPN3243 Color: Black</li> <li>FORD WSF-M4D803-A2</li> <li>Black</li> <li>Pellets</li> </ul>

## Ryton® R-7-120BL polyphenylene sulfide

Impact	Typical Value Unit	Test method
Notched Izod Impact		
3.18 mm	53 J/m	ASTM D256
	6.0 kJ/m <sup>2</sup>	ISO 180/A
Unnotched Izod Impact		
3.18 mm	210 J/m	ASTM D4812
	15 kJ/m²	ISO 180
Hardness	Typical Value Unit	Test method
Rockwell Hardness		ASTM D785
M-Scale	101	
R-Scale	118	
Thermal	Typical Value Unit	Test method
Deflection Temperature Under Load	71	ASTM D648
1.8 MPa, Unannealed	265 °C	
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	Typical 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	Typical Value Unit	Test method
Flame Rating (1.6 mm)	<ul><li>V-0</li><li>5VA</li></ul>	UL 94
Oxygen Index	61 %	ASTM D2863

## Ryton® R-7-120BL

### polyphenylene sulfide

#### Notes

Typical properties: these are not to be construed as specifications.

<sup>1</sup> 95%RH, 48 hr

#### www.solvay.com

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