

## Solvay Specialty Polymers Radel® R-7120 Polyphenylsulfone, 20% glass fiber (discontinued \*\*)

Category : Polymer , Thermoplastic , Polysulfone (PSU) , Polyphenylsulfone, Glass or Carbon Fiber Reinforced

### Material Notes:

RADEL R 7120 is a 20% glass fiber reinforced grade of RADEL R polyphenylsulfone developed specifically for aircraft interior applications. The product complies with the FAA regulation 14CFR Part 25 Appendix F, offering vertical burn resistance, very low smoke generation, and, through the use of proprietary additives, low heat release values in the Ohio State University (OSU) rate of heat release method. It also generates low flaming-mode toxic gas emissions. This high-performance thermoplastic compound offers increased strength, stiffness, and creep resistance relative to unreinforced polyphenylsulfone. Additionally, this resin offers reliable toughness and good resistance to most fluids found in the aviation industry, as well as exceptional hydrolytic stability and high heat deflection temperature. Parts can be fabricated from RADEL R-7120 resin using conventional injection molding equipment. This product was formerly known as PXM-04098.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Solvay-Specialty-Polymers-Radel-R-7120-Polyphenylsulfone-20-glass-fiber-nbspdiscontinued.php](http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Radel-R-7120-Polyphenylsulfone-20-glass-fiber-nbspdiscontinued.php)

Physical Properties	Metric	English	Comments
Density	1.42 g/cc	0.0513 lb/in <sup>3</sup>	ASTM D792
Melt Flow	12 g/10 min @Load 2.16 kg, Temperature 380 °C	12 g/10 min @Load 4.76 lb, Temperature 716 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	117 MPa	17000 psi	ASTM D638
Elongation at Break	2.2 %	2.2 %	ASTM D638
Tensile Modulus	7.30 GPa	1060 ksi	ASTM D638
Flexural Strength	155 MPa	22500 psi	at 5% strain; ASTM D790
Flexural Modulus	6.50 GPa	943 ksi	ASTM D790
Izod Impact, Notched	0.750 J/cm	1.41 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	180 °C	356 °F	ASTM D648

Processing Properties	Metric	English	Comments
Melt Temperature	349 - 377 °C	660 - 711 °F	injection molding
Mold Temperature	107 - 163 °C	225 - 325 °F	

Processing Properties	Metric	English	Comments
Drying Temperature	110.00 °C @Time 14400 sec	230.00 °F @Time 4.00 hour	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China