

# Polymer Resources



Classic® Engineering Plastic Compounds

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## PRL PCSF-FRG20

Polymer Resources Ltd. - Polycarbonate

Units 

Action

Legend 

### General Information

#### Product Description

Polymer Resources PCSF-FRG20 is a 20% glass fiber reinforced resin for structural foam molding.

#### General

Material Status	<ul style="list-style-type: none"> <li>Commercial: Active</li> </ul>
Availability	<ul style="list-style-type: none"> <li>North America</li> </ul>
Filler / Reinforcement	<ul style="list-style-type: none"> <li>Glass Fiber, 20% Filler by Weight</li> </ul>
Features	<ul style="list-style-type: none"> <li>Foamable</li> </ul>
Uses	<ul style="list-style-type: none"> <li>Foam</li> </ul>
RoHS Compliance	<ul style="list-style-type: none"> <li>RoHS Compliant</li> </ul>
Forms	<ul style="list-style-type: none"> <li>Pellets</li> </ul>
Processing Method	<ul style="list-style-type: none"> <li>Injection Molding</li> </ul>

### ASTM & ISO Properties <sup>1</sup>

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.35		ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	4.0 to 10	g/10 min	ASTM D1238
Molding Shrinkage - Flow (0.125 in)	1.0E-3 to 4.0E-3	in/in	ASTM D955
Mechanical			
Tensile Strength (Yield, 0.125 in)	17000	psi	ASTM D638
Tensile Strength (Break, 0.125 in)	17000	psi	ASTM D638
Flexural Modulus (0.125 in)	750000	psi	ASTM D790
Flexural Strength (0.125 in)	18000	psi	ASTM D790
Impact			
Notched Izod Impact (73°F, 0.125 in)	1.5	ft-lb/in	ASTM D256
Thermal			
Deflection Temperature Under Load (66 psi, Unannealed, 0.125 in)	300	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed, 0.125 in)	285	°F	ASTM D648

### Processing Information

	Nominal Value	Unit
Injection		
Drying Temperature	250 to 265	°F
Drying Time	3.0 to 4.0	hr
Drying Time, Maximum	8.0	hr
Rear Temperature	560 to 600	°F
Middle Temperature	580 to 620	°F
Front Temperature	600 to 640	°F
Processing (Melt) Temp	575 to 625	°F
Mold Temperature	180 to 240	°F

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

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