

Technical Literature A-03

AURUM[®] Crystallized Grades

The level of the heat resistance of AURUM[®] can be improved up to 300°C by heat-treatment (crystallizing) it after injection molding. A representative AURUM[®] Crystallized Grade is PL6200.

Characteristics:

- PL6200 (not reinforced with fiber) has heat resistance at 300°C.
- PL6200 shows about the same levels of plasma resistance, cleanliness and low outgassing.
- There is also a fiber-reinforced grade (JCN6230) available.

Comparison of physical properties:

A comparison of PL450C and the Crystallized Grade PL6200 is as follows:

Table 1 Comparison of PL450C and PL6200

Item	Unit	Testing Method	AURUM PL450C	AURUM PL6200
Heat distortion temperature:				
0.47MPa	°C	ASTM D-648	234	295
1.82MPa	°C	ASTM D-648	238	239
Mechanical properties:				
Tensile strength	MPa	ASTM D-638	90	80
Elongation	%	ASTM D-638	90	3
Flexural strength	MPa	ASTM D-790	140	150
Flexural modulus	MPa	ASTM D-790	2,900	4,220

The information contained herein is based on the information and data available at this moment, but none of the data or evaluation results contained herein provide any warranty whatsoever.