CELSTRAN® PP-GF40-0414 P7 (PRELIMINARY)

CELSTRAN® Long Fibre

Material code according to ISO 1043-1: PP Heat stabilized polypropylene reinforced with 40 weight percent long glass fibers. Natural. The fibers are chemically coupled to the polypropylene matrix. The pellets are cylindrical and normally as well as the embedded fibers 7 mm long. Parts molded of CELSTRAN have outstanding mechanical properties such as high strength and stiffness combined with high heat deflection. The notched impact strength is increased at elevated and low temperatures due to the fiber skeleton built in the parts. The long fiber reinforcement reduces creep significantly. The very isotropic shrinkage in the molded parts minimizes the warpage. Complex parts can be manufactured with high reproducibility by injection molding. Application field: Functional/structural parts for automotive

产品信息

树脂鉴别	PP-LGF40	ISO 1043
制品标识码	>PP-LGF40<	ISO 11469

机械性能

拉伸模量	9100	MPa	ISO 527-1/-2
拉伸断裂应力, 5mm/min	135	MPa	ISO 527-1/-2
断裂伸长率, 5mm/min	2.3	%	ISO 527-1/-2
弯曲模量	9300	MPa	ISO 178
弯曲强度	220	MPa	ISO 178
简支梁无缺口冲击强度, 23°C	70	kJ/m²	ISO 179/1eU
简支梁无缺口冲击强度, -30°C	50	kJ/m²	ISO 179/1eU
简支梁缺口冲击强度, 23°C	30	kJ/m²	ISO 179/1eA
简支梁缺口冲击强度, -30°C	35	kJ/m²	ISO 179/1eA

热性能

熔融温度, 10°C/min	166	°C	ISO 11357-1/-3
热变形温度, 1.8 MPa	158	°C	ISO 75-1/-2
热变形温度, 8.00 MPa	134	°C	ISO 75-1/-2

其它性能

密度	1230	kg/m³	ISO 1183
堆积密度	600	kg/m³	ISO 60

注塑

建议干燥	是	
干燥温度	90	°C
干燥时间，除湿干燥机	2 - 3	h
加工前水分含量	≤ 0.2	%
最优熔体温度	250	°C
最低熔体温度***	230	°C
最高熔体温度	270	°C
螺杆最大切线速度	≤ 0.1	m/s
最优模具温度	60	°C
最低模具温度	40	°C
最高模具温度	70	°C

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特性

加工方法	注塑

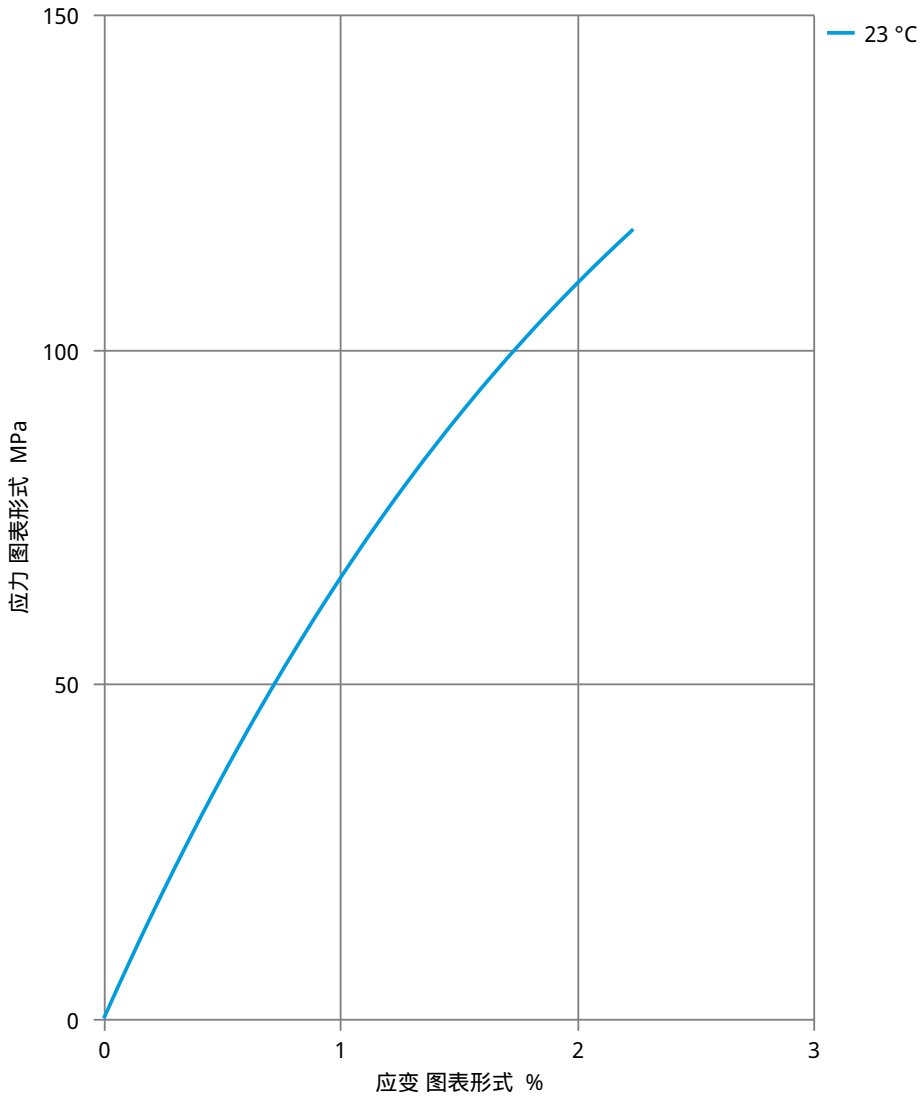
其他信息

加工注意事项

Pre-Drying

It is normally not necessary to dry CELSTRAN PP

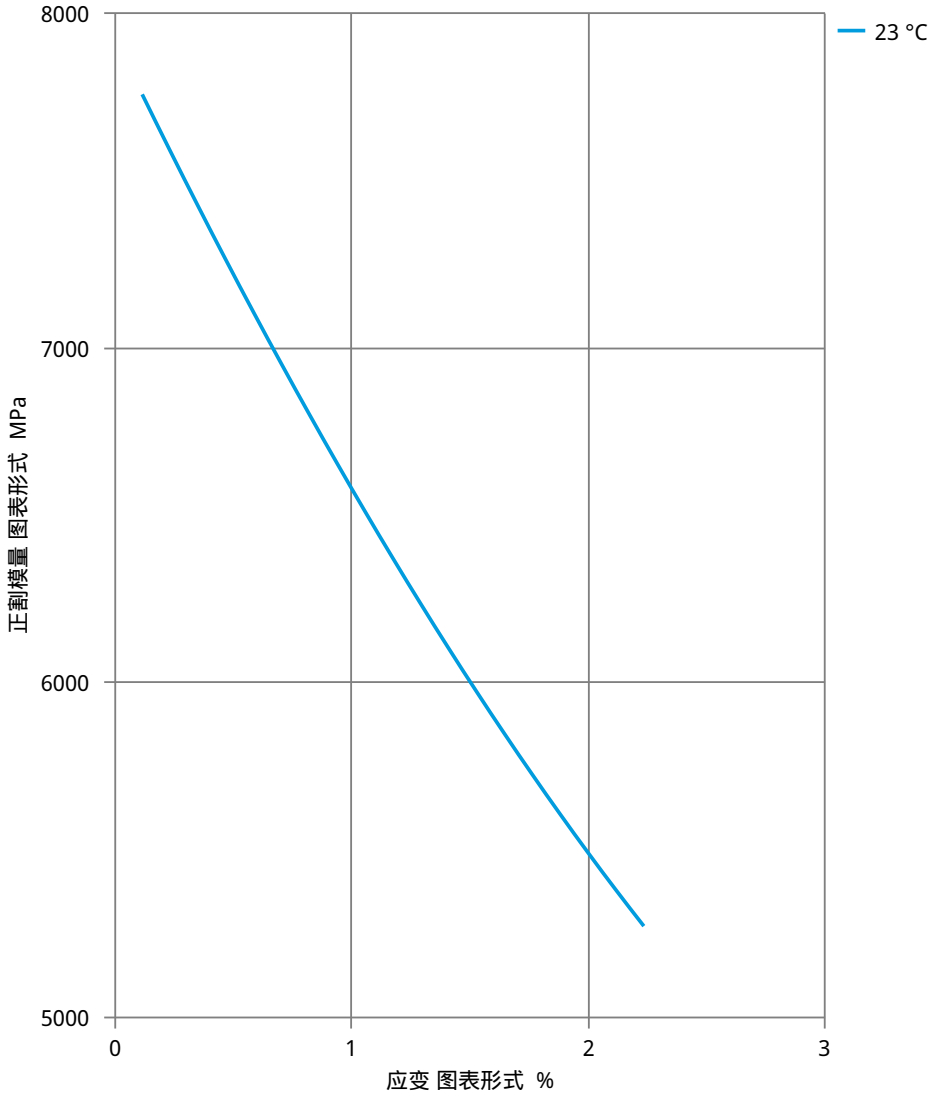
应力 - 应变



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正割模量 - 应变



Revised: 2025-07-21 Source: Celanese Materials Database

The above data are preliminary and are subject to change as additional data are developed on subsequent lots.
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