Celanese
The chemistry inside innovation™

CELCON® UV90Z

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Celcon® UV90Z is an integrally colored medium flow acetal copolymer material stabilized for use where ultraviolet radiation exposure is expected. The material is formulated to prevent discoloration, fading, chalking and mechanical property changes in severe ultraviolet exposure. This product is available in many colors formulated for the interior automotive market and other applications.

产品信息

树脂鉴别	POM		ISO 1043
制品标识码	>POM<		ISO 11469

流变性能

熔体体积流动速度	8	cm^3/10min	ISO 1133
温度	190	°C	
负荷	2.16	kg	
模塑收缩率, 平行	1.9	%	ISO 294-4, 2577
模塑收缩率, 垂直	1.7	%	ISO 294-4, 2577

机械性能

拉伸模量	2700	MPa	ISO 527-1/-2
拉伸屈服应力, 50mm/min	64	MPa	ISO 527-1/-2
屈服伸长率, 50mm/min	9	%	ISO 527-1/-2
弯曲模量	2470	MPa	ISO 178
3.5%应变时的弯曲应力	68	MPa	ISO 178
1%形变时的压缩应力	24	MPa	ISO 604
简支梁无缺口冲击强度, 23°C	102	kJ/m^2	ISO 179/1eU
简支梁缺口冲击强度, 23°C	7	kJ/m^2	ISO 179/1eA
简支梁缺口冲击强度, -30°C	7	kJ/m^2	ISO 179/1eA
悬臂梁缺口冲击强度, 23°C	5.7	kJ/m^2	ISO 180/1A
泊松比	0.42		

热性能

熔融温度, 10°C/min	165	°C	ISO 11357-1/-3
热变形温度, 1.8 MPa	91	°C	ISO 75-1/-2
热变形温度, 0.45 MPa	155	°C	ISO 75-1/-2
线性热膨胀系数, 平行	110	E-6/K	ISO 11359-1/-2
线性热膨胀系数, 垂直	120	E-6/K	ISO 11359-1/-2

阻燃性能

FMVSS Class	B		ISO 3795 (FMVSS 302)
燃烧速率, 厚度：1毫米	51	mm/min	ISO 3795 (FMVSS 302)

其它性能

吸湿率, 2mm	0.2	%	类似ISO 62
吸水率, 2mm	0.75	%	类似ISO 62
密度	1410	kg/m^3	ISO 1183

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注塑

建议干燥	否	
干燥温度	100	°C
干燥时间，除湿干燥机	3 - 4	h
加工前水分含量	≤ 0.2	%
最优熔体温度	190	°C
最低熔体温度***	180	°C
最高熔体温度	200	°C
螺杆最大切线速度	≤ 0.3	m/s
最优模具温度	100	°C
最低模具温度	80	°C
最高模具温度	120	°C
保压范围	60 - 120	MPa
保压时间 (h表示部件的最大壁厚mm)	2h²-3	s
背压	4	MPa

汽车

OEM	STANDARD	ADDITIONAL INFORMATION
Changan	MTS-F01-02-001-A3	2019
Ford	WSK-M4D840-A1	100% color match
Ford	WSS-M4D840-A6	Metallic
Ford	WSS-M4D840-B1	
General Motors		Natural, Special Parts Approval, See Your CE Account Representative for Further Details.
General Motors	GMW22P-POM-C2	N/A
Honda	Color approved	
Hyundai	MS237-09 Type B	Nanjing
Li Auto	Q/LiA5310020	2021 (V2)
Nissan	Color approved	
Stellantis - Chrysler	MS.50095 / CPN-1758	100% Color Match
Stellantis - Chrysler	MS.50095 / CPN-3110	Technical Black
Stellantis - Chrysler	MS.50095 / CPN-4624	Natural
Tesla	TM-1005-40CU1	Natural & Black, Bishop USA, Nanjing

特性

加工方法	注塑
添加剂	脱模助剂
特殊性能	光稳定, 耐紫外线/耐候, 特殊外观

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其他信息

注塑

Preprocessing

Drying is generally not required because Celcon® and Hostaform® acetal copolymers are not hydroscopic nor are they degraded by moisture during processing. Excessive moisture can lead to splay (silver streaking) in molded parts. For better uniformity in molding especially when using regrind or material that has been stored in containers open to the atmosphere, recommended drying conditions are 80 C (180 F) for 3hours. Desiccant hopper dryers are not required. Maximum water content = 0.35%

Processing

Standard reciprocating screw injection molding machines with a high compression screw (minimum 3:1 and preferably 4:1) and low back pressure (0.35 Mpa/50 PSI) are favored. Using a low compression screw (I.E. general purpose 2:1 compression ratio) can result in unmelted particles and poor melt homogeneity. Using a high back pressure to make up for a low compression ratio may lead to excessive shear heating and deterioration of the material.

Melt Temperature: Preferred range 182-199 C (360-390 F). Melt temperature should never exceed 230 C (450 F).

Mold Surface Temperature: Preferred range 82-93 C (180-200 F) especially with wall thickness less than 1.5 mm (0.060 in.). May require mold temperature as high as 120 C (250 F) to reproduce mold surface or to assure minimal molded in stress. Wall thickness greater than 3mm (1/8 in.) may use a cooler (65 C/150 F) mold surface temperature and wall thickness over 6mm (1/4 in.) may use a cold mold surface down to 25 C (80 F). In general, mold surface temperatures lower than 82 C (180 F) may hinder weld line formation and produce a hazy surface or a surface with flow lines, pits and other included defects that can hinder part performance.

Postprocessing

Postprocessing conditioning and moisturizing are not required. It may be necessary to fixture large or complicated parts with varying wall thickness to prevent warpage while cooling to ambient temperature.

加工注意事项

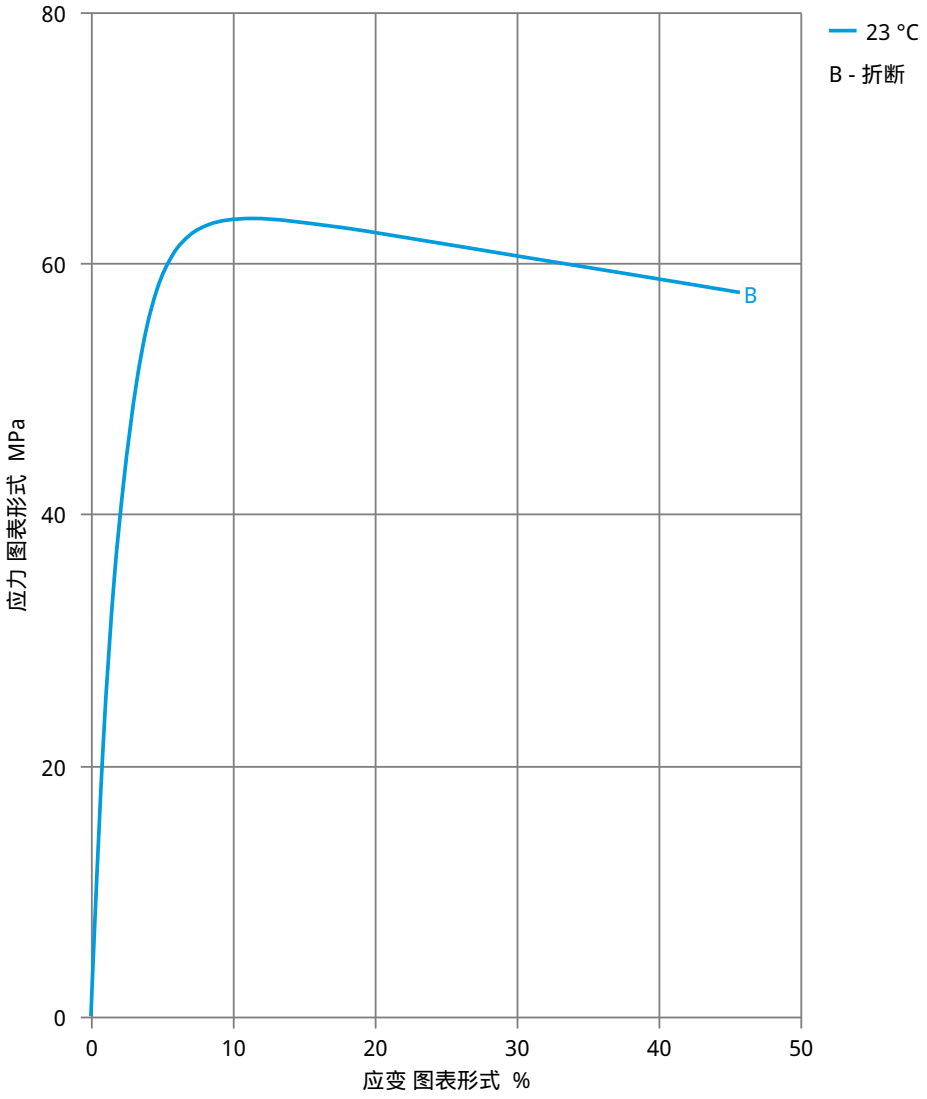
Pre-Drying

Drying is not normally required. If material has come in contact with moisture through improper storage or handling or through regrind use, drying may be necessary to prevent splay and odor problems.

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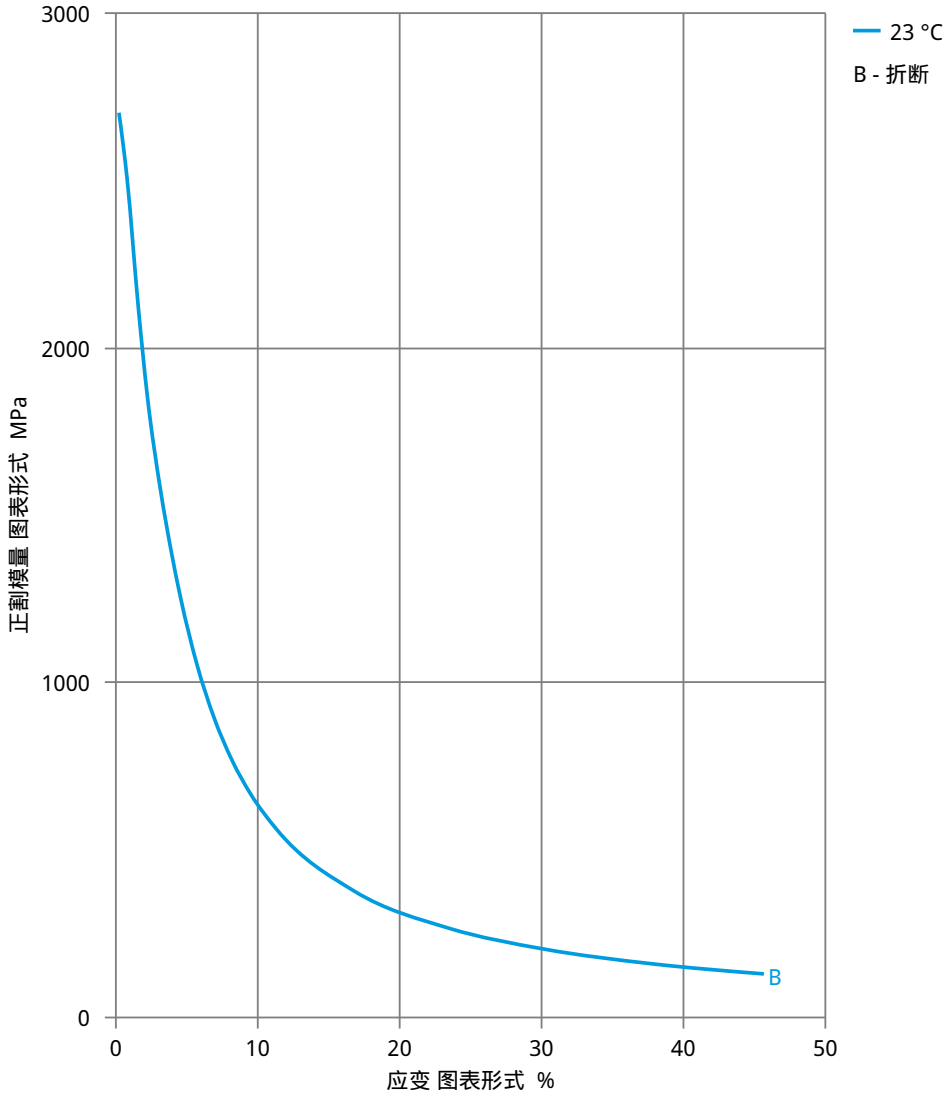
应力 - 应变



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正割模量 - 应变



Revised: 2026-08-12 Source: Celanese Materials Database

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