Celanese
The chemistry inside innovation™

HOSTAFORM® EC140XF

HOSTAFORM®

Hostaform® EC140XF is a conductive ESD grade of acetal copolymer for applications requiring dissipation of static build-up. Hostaform® EC140XF has an improved resistance to aggressive fuel blends.

产品信息

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

流变性能

熔体体积流动速度	4	cm^3/10min	ISO 1133
温度	190	°C	
负荷	2.16	kg	
熔体质量流动速率	4.5	g/10min	ISO 1133
熔体质量流动速率，温度	190	°C	
熔体质量流动速率，负荷	2.16	kg	
模塑收缩率, 平行	2.1	%	ISO 294-4, 2577
模塑收缩率, 垂直	1.9	%	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	53	MPa	ISO 527-1/-2
屈服伸长率, 50mm/min	4.7	%	ISO 527-1/-2
断裂伸长率, 50mm/min	12	%	ISO 527-1/-2
弯曲模量	2650	MPa	ISO 178
3.5%应变时的弯曲应力	70	MPa	ISO 178
简支梁无缺口冲击强度, 23°C	70	kJ/m^2	ISO 179/1eU
简支梁缺口冲击强度, 23°C	4	kJ/m^2	ISO 179/1eA
悬臂梁缺口冲击强度, 23°C	4.5	kJ/m^2	ISO 180/1A
洛氏硬度, M	75		ISO 2039-2
泊松比	0.445		

热性能

熔融温度, 10°C/min	166	°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	152	°C	ISO 75-1/-2
线性热膨胀系数, 平行	100	E-6/K	ISO 11359-1/-2
线性热膨胀系数, 垂直	110	E-6/K	ISO 11359-1/-2

电性能

表面电阻率	1000	Ohm	IEC 62631-3-2
电阻率, 导电塑料	1	Ohm.m	ISO 3915

其它性能

密度	1420	kg/m^3	ISO 1183

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注塑

建议干燥	是	
干燥温度	80	°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	200	°C
最低熔体温度***	190	°C
最高熔体温度	210	°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	2	MPa
顶出温度	131	°C

汽车

OEM	STANDARD	ADDITIONAL INFORMATION
Bosch	N28 BN22-X005	Black
Continental	TST N 055 54.35	
General Motors	GMW16278P-POM-Type C2	Black
Honda	Fuel spec	
Mercedes-Benz		Fuel (CD3068 BLK)
Mercedes-Benz	DBL5405-07-POM-C	Electroconductive: Polyoxymethylene Copolymer with Electroconductive Properties
Renault	No spec listed	
Stellantis	MS.50210 / POM-C.2000F.3C.EC	Technical Black;CPN5291 BLACK;61/208E-206M/H507G/C1/12, 01378_20_03973
Stellantis - Chrysler	MS.50095 / CPN-5291	Black
VW Group	TL 526 36B	

特性

加工方法	注塑
特殊性能	高导电性, 静电耗散

其他信息

注塑

Preprocessing

Drying is highly recommended for conductive carbon based ESD grades of Hostaform®. While POM is not 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 3 - 4 hours. Desiccant hopper dryers are not required. Maximum water content = 0.20%

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 Hostaform® 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 produce a hazy surface or a surface with flow lines, pits and other included defects.

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

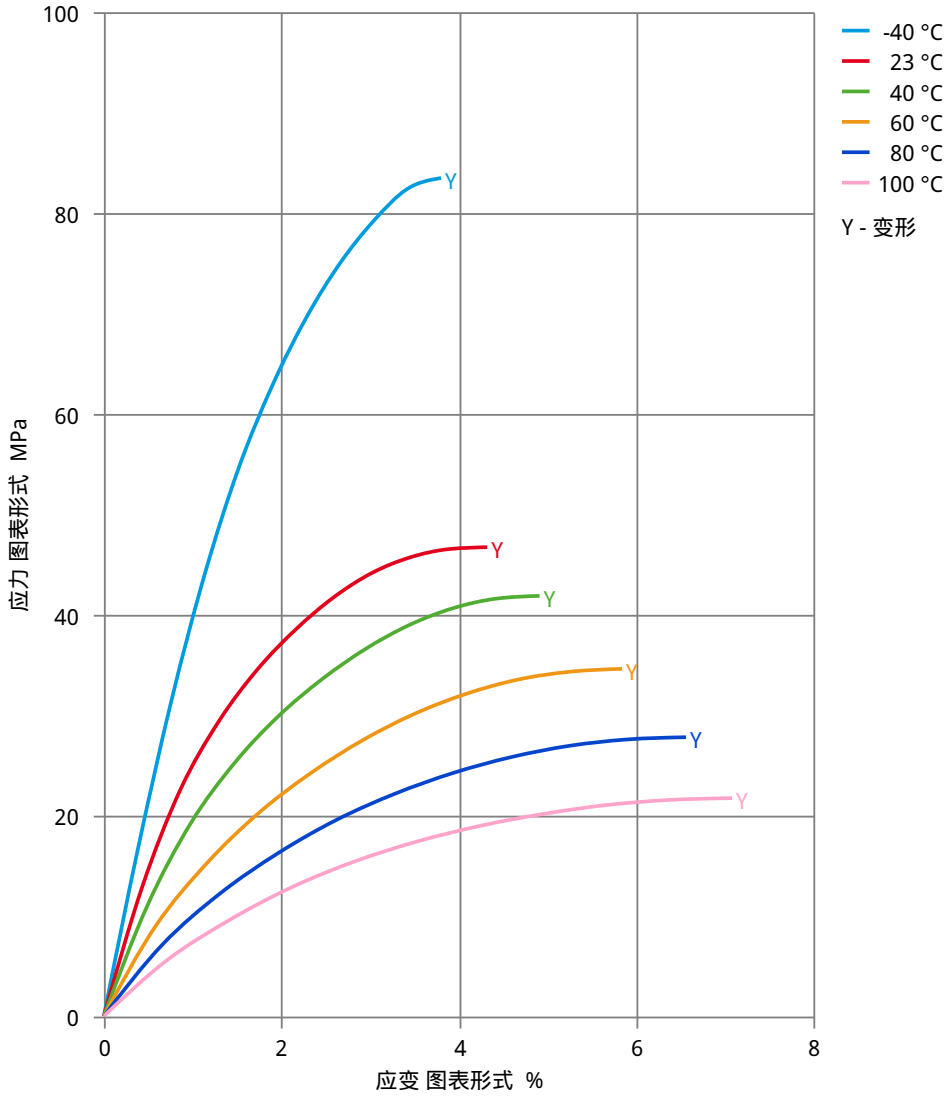
Storage

Predrying for conductive carbon based ESD grades is required.

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应力 - 应变

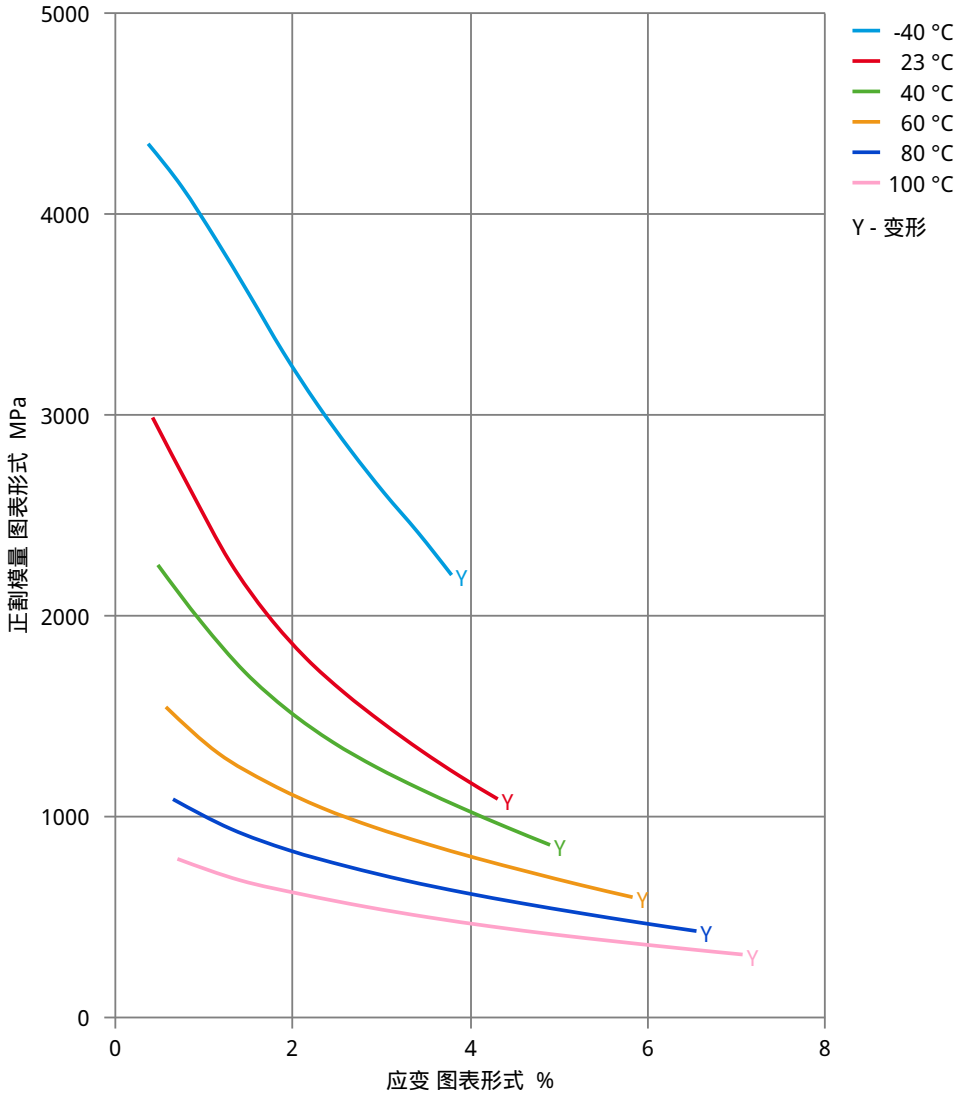


Revised: 2025-09-04 Source: Celanese Materials Database

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正割模量 - 应变



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耐化学性

标准燃油

- ✔ ISO 1817 燃油1号, 60°C
- ✔ ISO 1817 燃油2号, 60°C
- ✔ ISO 1817 燃油3号, 60°C
- ✔ ISO 1817 燃油4号, 60°C
- ✔ 不含酒精的标准燃油(优先使用C类ISO 1817 燃油), 23°C
- ✔ 含酒精的标准燃油(优先使用4号ISO 1817 燃油), 23°C

Symbols used:

✔ possibly resistant
Defined as: Supplier has sufficient indication that contact with chemical can be potentially accepted under the intended use conditions and expected service life. Criteria for assessment have to be indicated (e.g. surface aspect, volume change, property change).

✘ not recommended - see explanation
Defined as: Not recommended for general use. However, short-term exposure under certain restricted conditions could be acceptable (e.g. fast cleaning with thorough rinsing, spills, wiping, vapor exposure).

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用户须知： 所示数值基于实验室试样测试，代表本色材料标准属性范围内的数据。这些数值本身并不能作为任何部件设计的充分依据，且不旨在用于确定最大值、最小值或规格值范围。着色剂或其他添加剂可能会导致数据值的显著变化。模塑部件的性能会受到多种因素的影响，包括但不限于材料选择、添加剂、部件设计、加工条件和环境暴露。除了那些明确标识为医用级的产品（包括 MT® 产品标识或其他标识），塞拉尼斯的产品不旨在用于医疗或牙科植入。无论产品名称如何，确定特定材料和部件设计是否适用于用户所拟的任何用途以及使用方式是用户自身的责任，用户必须保证后续加工的材料满足其特定产品或用途的需要。据我们所知，本出版物中包含的信息是准确的；但是，我们对此处信息的准确性和完整性不承担任何责任。本出版物中包含的信息不应被视为对我们产品特定性能的承诺或保证。用户应自行负责调查使用本出版物中提及的材料是否侵犯了任何现有专利。此外，考虑到可能产生的不良影响，有必要将人类与许多材料的接触降至最低实际限度。对于本出版物中提到的任何危害，我们既不建议也不保证这些危害是唯一存在的危害。我们建议，打算依赖本出版物中的任何建议或使用本出版物中提及的任何设备、加工技术或材料的人，应确信他们能够满足所有适用的安全和健康标准。我们强烈建议用户在处理每种材料时，都要寻求并遵守制造商的最新说明，并且只委托受过适当培训的人员来处理这些材料。请拨打所列电话号码，了解更多技术信息。在尝试处理我们的产品之前，请致电客户服务部索取相应的材料安全数据表 (MSDS)。
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