Ultraform® H2320 006 AT

POM BASF

具有较高流动性的高分子量等级 ， 用于相对厚壁模制品的注塑。

根据ISO 1043-1: POM的缩写名称
根据ISO 29988-POM-K,,M-GNR,1-2的名称

流变性能	数值	单位	试验方法
ISO数据			
熔体体积流动速度, MVR	2.9	cm³/10min	ISO 1133
温度	190	°C	-
载荷	2.16	kg	-
模塑收缩率, 平行	2.1	%	ISO 294-4, 2577
模塑收缩率, 垂直	2.1	%	ISO 294-4, 2577

机械性能	数值	单位	试验方法
ISO数据			
拉伸模量	2600	MPa	ISO 527
屈服应力	62	MPa	ISO 527
屈服伸长率	11	%	ISO 527
名义断裂伸长率	30	%	ISO 527
拉伸蠕变模量, 1h	1800	MPa	ISO 899-1
拉伸蠕变模量, 1000h	1300	MPa	ISO 899-1
无缺口简支梁冲击强度, +23°C	270	kJ/m²	ISO 179/1eU
无缺口简支梁冲击强度, -30°C	260	kJ/m²	ISO 179/1eU
简支梁缺口冲击强度, +23°C	6.5	kJ/m²	ISO 179/1eA
简支梁缺口冲击强度, -30°C	5.5	kJ/m²	ISO 179/1eA

热性能	数值	单位	试验方法
ISO数据			
熔融温度, 10°C/min	165	°C	ISO 11357-1/-3
热变形温度, 1.80 MPa	95	°C	ISO 75-1/-2
热变形温度, 0.45 MPa	156	°C	ISO 75-1/-2
维卡软化温度, 50°C/h 50N	150	°C	ISO 306
线性热膨胀系数, 平行	120	E-6/K	ISO 11359-1/-2
1.5mm名义厚度时的燃烧性	HB	class	UL 94
测试用试样的厚度	1.6	mm	-
UL注册	是的	-	-
厚度为h时的燃烧性	HB	class	UL 94
测试用试样的厚度	0.8	mm	-
UL注册	是的	-	-
燃烧性 - 氧指数	15	%	ISO 4589-1/-2

电性能	数值	单位	试验方法
ISO数据			
相对介电常数, 100Hz	3.8	-	IEC 62631-2-1
相对介电常数, 1MHz	3.8	-	IEC 62631-2-1
介质损耗因子, 100Hz	10	E-4	IEC 62631-2-1
介质损耗因子, 1MHz	50	E-4	IEC 62631-2-1
体积电阻率	1E11	Ohm*m	IEC 62631-3-1
表面电阻率	1E13	Ohm	IEC 62631-3-2
介电强度	40	kV/mm	IEC 60243-1
相对漏电起痕指数	600	-	IEC 60112

其它性能	数值	单位	试验方法
ISO数据			
吸水性	0.9	%	类似ISO 62
吸湿性	0.2	%	类似ISO 62
密度	1410	kg/m³	ISO 1183

流变计算用参数	数值	单位	试验方法
ISO数据			
熔体	0.14	W/(m K)	-

熔体的比热	2800	J/(kg K)	-
喷射温度	110	°C	-

试样制备条件	数值	单位	试验方法
ISO数据			
注塑, 熔体温度	200	°C	ISO 294
注塑, 模具温度	90	°C	ISO 294
注塑, 注射速度	200	mm/s	ISO 294

加工推荐（注塑）	数值	单位	试验方法
预干燥-温度	100	°C	-
预干燥-时间	3	h	-
加工湿度	≤ 0.2	%	-
注塑熔体温度	190 - 230	°C	-
模具温度	60 - 120	°C	-

特征

加工方法
注塑, 薄膜挤出成型, 异型材挤出成型, 片材挤出成型, 其它挤出成型

添加剂
脱模助剂

供货形式
粒料

特征
共聚物

注塑

PREPROCESSING
Pre/Post-processing, max. allowed water content: .2 %
Pre/Post-processing, Pre-drying, Temperature: 100 °C
Pre/Post-processing, Pre-drying, Time: 3 h

PROCESSING
injection molding, Melt temperature, range: 190 - 230 °C
injection molding, Melt temperature, recommended: 200 °C
injection molding, Mold temperature, range: 60 - 120 °C
injection molding, Mold temperature, recommended: 90 °C
injection molding, Dwell time, thermoplastics: 10 min

薄膜挤出成型

PREPROCESSING
Pre/Post-processing, max. allowed water content: .2 %
Pre/Post-processing, Pre-drying, Temperature: 100 °C
Pre/Post-processing, Pre-drying, Time: 3 h

PROCESSING
Extrusion, Blown film, Melt temperature: 175 - 180 °C
Extrusion, Flat film, Melt temperature: 175 - 180 °C

Processing

Ultraform can be processed to particular advantage using three-section screws having a total length L of 20 - 25 D and a constant pitch of about 1 D. However short-compression zone screws may also be used.

Pretreatment

Granules or pellets in original packaging can be processed without any special pretreatment. Granules or pellets which have become moist due to prolonged or incorrect storage (e.g. by formation of condensed water) must be dried in dehumidifying or recirculating air dryers for approx. 3 hours at about 100 - 110 °C. The moisture content should not exceed 0.2 %.

Postprocessing

Due to the different solidification and cooling of the melt which varies according to time and place stresses may arise, especially in the case of

large wall thicknesses. These stresses can be removed by subsequent heat treatment. Tempering is essential when high demands are placed on dimensional stability. It can be carried out in air, liquid wax or oil at temperatures of 130 - 150, usually 140 - 145 °C. Lower temperatures are not effective. Duration: 10 minutes per 1 mm wall thickness.

其它挤出成型

PREPROCESSING
Pre/Post-processing, max. allowed water content: .2 %
Pre/Post-processing, Pre-drying, Temperature: 100 °C
Pre/Post-processing, Pre-drying, Time: 3 h

PROCESSING
Extrusion, Prepreg, Melt temperature: 175 - 180 °C
Extrusion, Pipes, Melt temperature: 175 - 180 °C
Extrusion, cable sheathing, Melt temperature: 175 - 180 °C

Processing

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PREPROCESSING
Pre/Post-processing, max. allowed water content: .2 %
Pre/Post-processing, Pre-drying, Temperature: 100 °C
Pre/Post-processing, Pre-drying, Time: 3 h

PROCESSING
Extrusion, Profiles, Melt temperature: 175 - 180 °C

Processing

Ultraform can be processed to particular advantage using three-section screws having a total length L of 20 - 25 D and a constant pitch of about 1 D. However short-compression zone screws may also be used.

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板材挤出成型

PREPROCESSING
Pre/Post-processing, max. allowed water content: .2 %

Pre/Post-processing, Pre-drying, Temperature: 100 °C
Pre/Post-processing, Pre-drying, Time: 3 h

PROCESSING
injection molding, Melt temperature, range: 190 - 230 °C
injection molding, Melt temperature, recommended: 200 °C
injection molding, Mold temperature, range: 60 - 120 °C
injection molding, Mold temperature, recommended: 90 °C
injection molding, Dwell time, thermoplastics: 10 min

权利义务的法律声明

权利义务的法律声明
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