

CAMPUS® 数据表



VALOX™ FR Resin ENH4550 - PBT-GF25 FR SABIC

材料文字说明

VALOX ENH4550 is a 25% glass reinforced, non-chlorinated/brominated flame retardant Polybutylene Terephthalate (PBT) injection moldable grade with excellent chemical resistance. It has a [UL94V0@0.30mm](#) and [5VA@2.0mm](#) flame rating. This is a good candidate for a variety of applications needing a sustainable FR PBT solution.

流变性能	价值	单位	测试标准
熔体体积流动速度, MVR	18	cm ³ /10min	ISO 1133
温度	265	°C	ISO 1133
负荷	5	kg	ISO 1133
机械性能	价值	单位	测试标准
拉伸模量	10400	MPa	ISO 527-1/-2
屈服应力	112	MPa	ISO 527-1/-2
屈服伸长率	2	%	ISO 527-1/-2
简支梁缺口冲击强度, +23°C	5	kJ/m ²	ISO 179/1eA
撕裂强度	8	kN/m	ISO 34-1
热性能	价值	单位	测试标准
热变形温度, 1.80 MPa	207	°C	ISO 75-1/-2
热变形温度, 0.45 MPa	220	°C	ISO 75-1/-2
维卡软化温度, 50°C/h 50N	207	°C	ISO 306
厚度为h时的燃烧性	V-0	class	IEC 60695-11-10
测试用试样的厚度	0.3	mm	IEC 60695-11-10
厚度为h时的5V燃烧性	5VA	class	IEC 60695-11-20
测试用试样的厚度	2.0	mm	IEC 60695-11-20
电性能	价值	单位	测试标准
相对介电常数, 1MHz	3.4	-	IEC 62631-2-1
介质损耗因子, 1MHz	1200	E-4	IEC 62631-2-1
体积电阻率	1E13	Ohm*m	IEC 62631-3-1
表面电阻率	>1E15	Ohm	IEC 62631-3-2
介电强度	30	kV/mm	IEC 60243-1
相对漏电起痕指数	300	-	IEC 60112
其它性能	价值	单位	测试标准
吸水性	0.23	%	类似ISO 62
吸湿性	0.06	%	类似ISO 62
密度	1520	kg/m ³	ISO 1183
模塑测量的特殊性能	价值	单位	测试标准
悬臂梁冲击强度 (+23°C), 4mm	40	kJ/m ²	ISO 180/1U
悬臂梁冲击强度 (-30°C), 4mm	35	kJ/m ²	ISO 180/1U
悬臂梁缺口冲击强度 (-30°C), 4mm	8	kJ/m ²	ISO 180/1A

典型数据

加工方法

注塑

地区供应

北美, 欧洲, 亚太

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