Celanese
The chemistry inside innovation™

Zytel® RS 32G10DO BK236 (PRELIMINARY)

LONG CHAIN POLYAMIDE RESIN

Zytel® RS 32G10DO BK236 is a glass reinforced, low density polyamide 610 resin with improved radio frequency performance, developed for light-weight structural application.

产品信息

树脂鉴别	PA610-(GB+GF)25		ISO 1043
制品标识码	>PA610-(GB+GF)25<		ISO 11469
生物碳含量	≥ 50[C]	%	ISO 16620-2

[C]: Calculated

流变性能

模塑收缩率, 平行	0.6	%	ISO 294-4, 2577
模塑收缩率, 垂直	0.5	%	ISO 294-4, 2577

机械性能

拉伸模量	5000	MPa	ISO 527-1/-2
拉伸断裂应力, 5mm/min	110	MPa	ISO 527-1/-2
断裂伸长率, 5mm/min	4.2	%	ISO 527-1/-2
简支梁无缺口冲击强度, 23°C	49	kJ/m²	ISO 179/1eU
简支梁缺口冲击强度, 23°C	4.9	kJ/m²	ISO 179/1eA

热性能

熔融温度, 10°C/min	222	°C	ISO 11357-1/-3
玻璃化转变温度, 10°C/min	60	°C	ISO 11357-1/-3
热变形温度, 1.8 MPa	182	°C	ISO 75-1/-2
热变形温度, 0.45 MPa	215	°C	ISO 75-1/-2
线性热膨胀系数, 平行	38	E-6/K	ISO 11359-1/-2
线性热膨胀系数, 平行，-40-23℃	25	E-6/K	ISO 11359-1/-2
线性热膨胀系数, 平行，55-160℃	43	E-6/K	ISO 11359-1/-2
线性热膨胀系数, 垂直	68	E-6/K	ISO 11359-1/-2
线性热膨胀系数, 垂直，-40-23℃	47	E-6/K	ISO 11359-1/-2
线性热膨胀系数, 垂直，55-160℃	125	E-6/K	ISO 11359-1/-2

阻燃性能

厚度为h时的阻燃性	HB	class	IEC 60695-11-10
测试用试样的厚度	0.8	mm	IEC 60695-11-10

电性能

相对介电常数, 2GHz	2.7		IEC 61189-2-721
介质损耗因子, 2GHz	106	E-4	IEC 61189-2-721
体积电阻率	>1E13	Ohm.m	IEC 62631-3-1
介电强度	30	kV/mm	IEC 60243-1

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其它性能

吸湿率, 2mm	1.6	%	类似ISO 62
密度	980	kg/m³	ISO 1183

注塑

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	≤ 0.15	%
最优熔体温度	270	°C
最低熔体温度***	260	°C
最高熔体温度	290	°C
最优模具温度	90	°C
最低模具温度	70	°C
最高模具温度	120	°C

特性

加工方法	注塑
可持续	生物基

Revised: 2026-06-18 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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