Zytel® RS 30GB20T NC010 (PRELIMINARY)

LONG CHAIN POLYAMIDE RESIN

Zytel® RS 30GB20T NC010 is a glass reinforced, toughened, low density, biobased polyamide 610 resin with improved radio frequency performance.

产品信息

树脂鉴别	PA610-I-(GB+GF)20	ISO 1043
制品标识码	>PA610-I-(GB+GF)20<	ISO 11469
生物碳含量	≥ 40[C] %	ISO 16620-2

[C]: Calculated

流变性能

	dry/cond.		
模塑收缩率, 平行	1.1 / -	%	ISO 294-4, 2577
模塑收缩率, 垂直	0.8 / -	%	ISO 294-4, 2577

机械性能

	dry/cond.		
拉伸模量	2100 / -	MPa	ISO 527-1/-2
拉伸断裂应力, 5mm/min	40 / -	MPa	ISO 527-1/-2
断裂伸长率, 5mm/min	26 / -	%	ISO 527-1/-2
弯曲模量	2000 / -	MPa	ISO 178
弯曲强度	60[1] / -	MPa	ISO 178
简支梁无缺口冲击强度, 23°C	170 / -	kJ/m²	ISO 179/1eU
简支梁无缺口冲击强度, -30°C	150 / -	kJ/m²	ISO 179/1eU
简支梁缺口冲击强度, 23°C	11 / -	kJ/m²	ISO 179/1eA
简支梁缺口冲击强度, -40°C	7 / -	kJ/m²	ISO 179/1eA

[1]: 5% strain

热性能

	dry/cond.		
熔融温度, 10°C/min	223 / *	°C	ISO 11357-1/-3
热变形温度, 1.8 MPa	64 / *	°C	ISO 75-1/-2

阻燃性能

	dry/cond.		
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

	dry/cond.		
相对介电常数, 2GHz	2.3 / -		IEC 61189-2-721
介质损耗因子, 2GHz	70 / -	E-4	IEC 61189-2-721

其它性能

	dry/cond.		
吸湿率, 2mm	0.8 / *[C]	%	类似ISO 62
吸水率, 2mm	1.9 / *[C]	%	类似ISO 62
密度	840 / -	kg/m³	ISO 1183

[C]: Calculated

Revised: 2026-06-18 Source: Celanese Materials Database

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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
螺杆最大切线速度	Low-Medium - 中到高	m/s
最优模具温度	90	°C
最低模具温度	70	°C
最高模具温度	120	°C
保压范围	尽可能低 - 20 to 40% of max injection pressure	MPa
保压时间 (h表示部件的最大壁厚mm)	h^2+2	s

特性

加工方法	注塑
特殊性能	抗冲改性

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The above data are preliminary and are subject to change as additional data are developed on subsequent lots.
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