Crastin® FRHR5315NH BK591LM (PRELIMINARY)

THERMOPLASTIC POLYESTER RESIN

Crastin® FRHR5315NH BK591LM is a 15% Glass Reinforced, Flame Retardant, Non-Halogenated, Hydrolysis resistant, Polybutylene Terephthalate

产品信息

树脂鉴别	PBT-GF15 FR(40+30)	ISO 1043
制品标识码	>PBT-GF15 FR(40+30)<	ISO 11469

流变性能

熔体体积流动速度	10	cm^3/10min	ISO 1133
温度	250	°C	
负荷	2.16	kg	
模塑收缩率, 平行	0.4	%	ISO 294-4, 2577
模塑收缩率, 垂直	1.2	%	ISO 294-4, 2577

机械性能

拉伸模量	6200	MPa	ISO 527-1/-2
拉伸断裂应力, 5mm/min	72	MPa	ISO 527-1/-2
断裂伸长率, 5mm/min	2.9	%	ISO 527-1/-2
简支梁无缺口冲击强度, 23°C	30	kJ/m^2	ISO 179/1eU
简支梁无缺口冲击强度, -40°C	29.5	kJ/m^2	ISO 179/1eU
简支梁缺口冲击强度, 23°C	4.9	kJ/m^2	ISO 179/1eA
简支梁缺口冲击强度, -40°C	4.2	kJ/m^2	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	198	°C	ISO 75-1/-2
热变形温度, 0.45 MPa	219	°C	ISO 75-1/-2

阻燃性能

厚度为h时的阻燃性	V-0	class	IEC 60695-11-10
测试用试样的厚度	0.4	mm	IEC 60695-11-10
灼热丝可燃指数, 0.75mm	960	°C	IEC 60695-2-12
灼热丝起燃温度, 0.75mm	750	°C	IEC 60695-2-13

电性能

相对漏电起痕指数	600	IEC 60112

其它性能

密度	1440	kg/m^3	ISO 1183

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注塑

建议干燥	是
干燥温度	120 °C
干燥时间，除湿干燥机	2 - 4 h
加工前水分含量	≤ 0.04 %
最优熔体温度	250 °C
最低熔体温度***	240 °C
最高熔体温度	260 °C
最优模具温度	80 °C
最低模具温度	60 °C
最高模具温度	130 °C
保压范围	≥ 60 MPa
保压时间	3 s/mm
背压	尽可能低 MPa
顶出温度	170 °C

特性

加工方法	注塑
添加剂	阻燃剂, 无卤/无红磷阻燃剂
特殊性能	阻燃, 耐水解, 可激光打标

Revised: 2026-10-08 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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