Crastin® HR5330HFS BK591

PBT-I-GF30 Celanese

Product Texts

Crastin® HR5330HFS BK591 is a 30% Glass Reinforced Polybutylene Terephthalate with high flow, moderately toughened, and hydrolysis resistant (HR) for injection molding. Crastin® HR5330HFS BK591 can also be laser marked at 355, 532 and 1064 nm.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
[C] Melt volume-flow rate, MVR	**8**	cm³/10min	ISO 1133
Temperature	**250**	°C	-
Load	**2.16**	kg	-
[C] Molding shrinkage, parallel	**0.3**	%	ISO 294-4, 2577
[C] Molding shrinkage, normal	**1.1**	%	ISO 294-4, 2577
[C] Ejection temperature	**170**	°C	-

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
ISO Data			
[C] Tensile Modulus	**8500**	MPa	ISO 527
[C] Stress at break	**120**	MPa	ISO 527
[C] Strain at break	**3.2**	%	ISO 527
[C] Charpy impact strength, +23°C	**70**	kJ/m²	ISO 179/1eU
[C] Charpy impact strength, -30°C	**70**	kJ/m²	ISO 179/1eU
[C] Charpy notched impact strength, +23°C	**12**	kJ/m²	ISO 179/1eA
[C] Charpy notched impact strength, -30°C	**8**	kJ/m²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
[C] Melting temperature, 10°C/min	**225**	°C	ISO 11357-1/-3
[C] Glass transition temperature, 10°C/min	**65**	°C	ISO 11357-1/-2
[C] Temp. of deflection under load, 1.80 MPa	**205**	°C	ISO 75-1/-2
[C] Coeff. of linear therm. expansion, parallel	**22**	E-6/K	ISO 11359-1/-2
[C] Coeff. of linear therm. expansion, normal	**190**	E-6/K	ISO 11359-1/-2
[C] Burning Behav. at thickness h	**HB**	class	IEC 60695-11-10
Thickness tested	**0.8**	mm	-
Yellow Card available	**yes**	-	-
[C] Burning rate, FMVSS, Thickness 1 mm	**39**	mm/min	ISO 3795 (FMVSS 302)
[C] Oxygen index	**20**	%	ISO 4589-1/-2

[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
ISO Data			
[C] Volume resistivity	**>1E13**	Ohm*m	IEC 62631-3-1
[C] Surface resistivity	**>1E15**	Ohm	IEC 62631-3-2
[C] Electric strength	**34**	kV/mm	IEC 60243-1
[C] Comparative tracking index	**525**	-	IEC 60112

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
[C] Water absorption	**0.35**	%	Sim. to ISO 62
[C] Humidity absorption	**0.15**	%	Sim. to ISO 62
[C] Density	**1500**	kg/m³	ISO 1183

[C]: CAMPUS

Material specific properties	Value	Unit	Test Standard
ISO Data			
[C] Viscosity number	**107**	cm³/g	ISO 307, 1157, 1628

[C]: CAMPUS

Characteristics

Processing
Injection Molding

Delivery form
Pellets, Black

Additives
Release agent

Special Characteristics
High impact or impact modified

Features
Laser Markable

Chemical Resistance
Hydrolytically Stable

Regional Availability
North America, Europe, Asia Pacific, South and Central America