Crastin® LW9320LM BK591

(PBT+SAN)-I-GF20 Celanese

Product Texts

Common features of Crastin® thermoplastic polyester resin include mechanical and physical properties such as stiffness and toughness, heat resistance, friction and wear resistance, excellent surface finishes and good colourability. Crastin® thermoplastic polyester resin has excellent electrical insulation characteristics and high arc-resistant grades are available. Many flame retardant grades have UL recognition (class V-0). Crastin® thermoplastic polyester resin typically has high chemical and heat ageing resistance.

The good melt stability of Crastin® thermoplastic polyester resin normally enables the recycling of properly handled production waste.
If recycling is not possible, we recommend, as the preferred option, incineration with energy recovery (-24 kJ/g of base polymer) in appropriately equipped installations. For disposal, local regulations have to be observed.

Crastin® thermoplastic polyester resin typically is used in demanding applications in the electronics, electrical, automotive, mechanical engineering, chemical, domestic appliances and sporting goods industry.

Crastin® LW9320LM is a 20% glass fiber reinforced polybutylene terephthalate blend for injection molding. It has excellent surface aspect, dimensional stability and low warpage and was developed for laser marking applications..

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
[C] Ejection temperature	**170**	°C	-

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
ISO Data			
[C] Tensile Modulus	**7500**	MPa	ISO 527
[C] Stress at break	**120**	MPa	ISO 527
[C] Strain at break	**2.3**	%	ISO 527
[C] Charpy impact strength, +23°C	**45**	kJ/m²	ISO 179/1eU
[C] Charpy impact strength, -30°C	**40**	kJ/m²	ISO 179/1eU
[C] Charpy notched impact strength, +23°C	**7**	kJ/m²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
[C] Melting temperature, 10°C/min	**220**	°C	ISO 11357-1/-3
[C] Glass transition temperature, 10°C/min	**110**	°C	ISO 11357-1/-2
[C] Temp. of deflection under load, 1.80 MPa	**165**	°C	ISO 75-1/-2
[C] Burning Behav. at 1.5 mm nom. thickn.	**HB**	class	IEC 60695-11-10
Thickness tested	**1.6**	mm	-
[C] Burning rate, FMVSS, Thickness 1 mm	**59**	mm/min	ISO 3795 (FMVSS 302)

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
[C] Density	**1350**	kg/m³	ISO 1183

[C]: CAMPUS

Characteristics

Processing
Injection Molding

Delivery form
Pellets, Black

Additives
Release agent

Special Characteristics
High impact or impact modified

Features
Laser Markable, Low Warpage

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

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