

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® SK612SF is a 15% glass fiber reinforced, low viscosity polybutylene terephthalate for injection molding. It has high flow characteristics and is specifically suitable for super fast production.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
^[C] Molding shrinkage, parallel	0.4	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	1.1	%	ISO 294-4, 2577
^[C] Density of melt	1220	kg/m ³	-
^[C] Thermal conductivity of melt	0.24	W/(m K)	-
^[C] Spec. heat capacity of melt	1900	J/(kg K)	-
^[C] Ejection temperature	170	°C	-

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	5800	MPa	ISO 527
^[C] Stress at break	106	MPa	ISO 527
^[C] Strain at break	3.2	%	ISO 527
^[C] Charpy impact strength, +23°C	30	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	30	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	6	kJ/m ²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	224	°C	ISO 11357-1/-3
^[C] Glass transition temperature, 10°C/min	55	°C	ISO 11357-1/-2
^[C] Temp. of deflection under load, 1.80 MPa	200	°C	ISO 75-1/-2
^[C] Coeff. of linear therm. expansion, parallel	50	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	95	E-6/K	ISO 11359-1/-2
^[C] Burning rate, FMVSS, Thickness 1 mm	30	mm/min	ISO 3795 (FMVSS 302)
^[C] Oxygen index	19	%	ISO 4589-1/-2

[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
ISO Data			
^[C] Relative permittivity, 100Hz	3.8	-	IEC 62631-2-1
^[C] Relative permittivity, 1MHz	3.2	-	IEC 62631-2-1
^[C] Dissipation factor, 100Hz	20	E-4	IEC 62631-2-1
^[C] Dissipation factor, 1MHz	190	E-4	IEC 62631-2-1
^[C] Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1
^[C] Surface resistivity	1E15	Ohm	IEC 62631-3-2
^[C] Electric strength	37	kV/mm	IEC 60243-1
^[C] Comparative tracking index	350	-	IEC 60112

[C]: CAMPUS

Crastin® SK612SF NC010

PBT-GF15

Celanese

Other properties	Value	Unit	Test Standard
^[C] Water absorption	0.4	%	Sim. to ISO 62
^[C] Humidity absorption	0.15	%	Sim. to ISO 62
^[C] Density	1410	kg/m ³	ISO 1183

[C]: CAMPUS

Characteristics**Processing**

Injection Molding

Additives

Release agent

Delivery form

Pellets, Natural Color

Regional Availability

Europe, Asia Pacific