Rynite® 935 BK505

PET-(P+GF)35 Celanese

Product Texts

Common features of Rynite® thermoplastic polyester include mechanical and physical properties such as excellent balance of strength and stiffness, dimensional stability, creep resistance, heat resistance, high surface gloss and good inherent electrical properties at elevated temperature. It can be processed over a broad temperature range and has excellent flow properties.

Rynite® thermoplastic polyester resins are typically used in demanding applications in the automotive, electrical and electronics, appliances where they successfully replace metals and thermosets, as well as other thermoplastic polymers.

Rynite® 935 BK505 is a 35% mica/glass reinforced modified polyethylene terephthalate resin with low warpage and excellent electrical properties.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
[C] Molding shrinkage, parallel	**0.2**	%	ISO 294-4, 2577
[C] Molding shrinkage, normal	**0.7**	%	ISO 294-4, 2577
[C] Ejection temperature	**170**	°C	-

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
ISO Data			
[C] Tensile Modulus	**10200**	MPa	ISO 527
[C] Stress at break	**82**	MPa	ISO 527
[C] Strain at break	**2**	%	ISO 527
[C] Charpy impact strength, +23°C	**25**	kJ/m²	ISO 179/1eU
[C] Charpy notched impact strength, +23°C	**5.5**	kJ/m²	ISO 179/1eA
[C] Charpy notched impact strength, -30°C	**4**	kJ/m²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
[C] Melting temperature, 10°C/min	**252**	°C	ISO 11357-1/-3
[C] Temp. of deflection under load, 1.80 MPa	**200**	°C	ISO 75-1/-2
[C] Temp. of deflection under load, 0.45 MPa	**240**	°C	ISO 75-1/-2
[C] Burning Behav. at 1.5 mm nom. thickn.	**HB**	class	IEC 60695-11-10
Thickness tested	**1.5**	mm	-
Yellow Card available	**yes**	-	-
[C] Burning Behav. at thickness h	**HB**	class	IEC 60695-11-10
Thickness tested	**0.8**	mm	-
Yellow Card available	**yes**	-	-

[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
ISO Data			
[C] Relative permittivity, 1MHz	**4**	-	IEC 62631-2-1
[C] Dissipation factor, 1MHz	**150**	E-4	IEC 62631-2-1

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
[C] Density	**1580**	kg/m³	ISO 1183

[C]: CAMPUS

Characteristics

Processing	Features
Injection Molding	Low Warpage

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