

DuPont Performance Polymers Rynite® 515CS BK575M PET

Category : Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET) , Polyethylene Terephthalate (PET), 20% Glass Reinforced

Material Notes:

Rynite® 515CS BK575M is a 15% glass fiber reinforced, black polyethylene terephthalate resin modified for improved color stability after heat aging. Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Rynite-515CS-BK575M-PET.php

Physical Properties	Metric	English	Comments
Density	1.43 g/cc	0.0517 lb/in ³	ISO 1183
Filler Content	15 %	15 %	
Linear Mold Shrinkage, Flow	0.0020 cm/cm @Thickness 2.00 mm	0.0020 in/in @Thickness 0.0787 in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.0090 cm/cm @Thickness 2.00 mm	0.0090 in/in @Thickness 0.0787 in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	97.0 MPa @Temperature 23.0 °C	14100 psi @Temperature 73.4 °F	ISO 527
Elongation at Break	2.4 % @Temperature 23.0 °C	2.4 % @Temperature 73.4 °F	ISO 527
Tensile Modulus	6.20 GPa @Temperature 23.0 °C	899 ksi @Temperature 73.4 °F	ISO 527
Flexural Modulus	5.60 GPa @Temperature 23.0 °C	812 ksi @Temperature 73.4 °F	ISO 178
Izod Impact, Notched (ISO)	5.00 kJ/m ² @Temperature 23.0 °C	2.38 ft-lb/in ² @Temperature 73.4 °F	ISO 180/1A
	5.00 kJ/m ² @Temperature -40.0 °C	2.38 ft-lb/in ² @Temperature -40.0 °F	ISO 180/1A
Charpy Impact Unnotched	2.00 J/cm ² @Temperature 23.0 °C	9.52 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	0.500 J/cm ²	2.38 ft-lb/in ²	ISO 179/1eA

Mechanical Properties	@Temperature 23.0 °C Metric	@Temperature 73.4 °F English	Comments
	0.500 J/cm²	2.38 ft-lb/in²	ISO 179/1eA
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Thermal Properties	Metric	English	Comments
Melting Point	250 °C	482 °F	10°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	245 °C	473 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	200 °C	392 °F	ISO 75-1/-2
UL RTI, Electrical	75.0 °C @Thickness 0.750 mm	167 °F @Thickness 0.0295 in	UL 746B
UL RTI, Mechanical with Impact	75.0 °C @Thickness 0.750 mm	167 °F @Thickness 0.0295 in	UL 746B
UL RTI, Mechanical without Impact	75.0 °C @Thickness 0.750 mm	167 °F @Thickness 0.0295 in	UL 746B
Flammability, UL94	HB @Thickness 0.750 mm	HB @Thickness 0.0295 in	UL 94
	HB @Thickness 0.750 mm	HB @Thickness 0.0295 in	IEC 60695-11-10
Oxygen Index	20 %	20 %	ISO 4589-1/-2

Processing Properties	Metric	English	Comments
Melt Temperature	270 - 290 °C	518 - 554 °F	
	280 °C	536 °F	Optimum
Mold Temperature	130 - 140 °C	266 - 284 °F	
	135 °C	275 °F	optimum
Drying Temperature	120 °C	248 °F	
Dry Time	4.00 hour	4.00 hour	
Moisture Content	<= 0.020 %	<= 0.020 %	

Descriptive Properties	Value	Comments
Appearance	Black Color	

Descriptive Properties	Value	Comments
Drying Recommended	Yes	
Filler	Glass Reinforced	
Generic	PET	
Material Status	Current	
Part Marking Code	>PET-GF15<	ISO 11469
Polymer Family	Polyester	
Polymer Type	PET	
Product Category	Color Stable Resins	
	Glass Reinforced Resins	
Resin Identification	PET-GF15	ISO 1043
RoHS Compliance	Contact Manufacturer	

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