

DuPont Performance Polymers Rynite® 408 BK515 PET

Category : Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET) , Polyethylene Terephthalate (PET), 30% Glass Reinforced

Material Notes:

Rynite® 408 BK515 is a 30% glass reinforced modified polyethylene terephthalate with improved impact resistance. Excellent balance of strength, stiffness, toughness and temperature resistance. Information provided by DuPont

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Rynite-408-BK515-PET.php

Physical Properties	Metric	English	Comments
Density	1.49 g/cc	0.0538 lb/in ³	ISO 1183
Filler Content	30 %	30 %	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	55.0 MPa	7980 psi	ISO 527
	@Temperature 150 °C	@Temperature 302 °F	
	71.0 MPa	10300 psi	
	@Temperature 90.0 °C	@Temperature 194 °F	ISO 527
	127 MPa	18400 psi	ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	179 MPa	26000 psi	ISO 527
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Elongation at Break	2.6 %	2.6 %	ISO 527
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	2.9 %	2.9 %	
	@Temperature 23.0 °C	@Temperature 73.4 °F	ISO 527
	9.7 %	9.7 %	ISO 527
	@Temperature 90.0 °C	@Temperature 194 °F	
	11 %	11 %	ISO 527
	@Temperature 150 °C	@Temperature 302 °F	
Tensile Modulus	2.89 GPa	419 ksi	ISO 527
	@Temperature 150 °C	@Temperature 302 °F	
	4.02 GPa	583 ksi	ISO 527

Mechanical Properties	@Temperature 90.0 °C Metric	@Temperature 194 °F English	Comments
	9.30 GPa	1350 ksi	ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	10.79 GPa	1565 ksi	ISO 527
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Flexural Modulus	7.962 GPa	1155 ksi	ISO 178
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Notched (ISO)	13.0 kJ/m ²	6.19 ft-lb/in ²	ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	6.40 J/cm ²	30.5 ft-lb/in ²	ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	1.30 J/cm ²	6.19 ft-lb/in ²	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °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)	237 °C	459 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	218 °C	424 °F	ISO 75-1/-2
UL RTI, Electrical	140 °C	284 °F	UL 746B
	@Thickness 0.750 mm	@Thickness 0.0295 in	
UL RTI, Mechanical with Impact	140 °C	284 °F	UL 746B
	@Thickness 0.750 mm	@Thickness 0.0295 in	
UL RTI, Mechanical without Impact	140 °C	284 °F	UL 746B
	@Thickness 0.750 mm	@Thickness 0.0295 in	
Flammability, UL94	HB	HB	UL94
	@Thickness 0.750 mm	@Thickness 0.0295 in	

Processing Properties	Metric	English	Comments
Melt Temperature	280 °C	536 °F	Optimum
	270 - 290 °C	518 - 554 °F	
Mold Temperature	>= 95.0 °C	>= 203 °F	

Processing Properties	Metric	English	Comments
Drying Temperature	120 °C	248 °F	
Dry Time	4.00 hour	4.00 hour	Dehumidified Dryer
Moisture Content	<= 0.020 %	<= 0.020 %	

Descriptive Properties	Value	Comments
Appearance	Black Color	
Drying Recommended	Yes	
Features	Creep Resistance, Good	
	Dimensional Stability, Good	
	Electrical Properties, Good	
	Stiffness, Good	
	Strength, Good	
	Thermal Aging Resistance, Good	
Filler	Glass fiber reinforcement	
	Glass Reinforced	
Generic	PET	
Material Status	Current	
Part Marking Code	>PET-IGF30<	ISO 11469
Processing Method	Injection Molding	
Product Category	Glass Reinforced Resins	
	Toughened Resins	
Region Available - Americas	Yes	
Region Available - Asia/Pacific	Yes	
Region Available - Europe	Yes	
Resin Identification	PET-IGF30	ISO 1043
RoHS Compliance	Contact Manufacturer	
Uses	Automotive Applications	

Descriptive Properties	Electrical/Electronic Applications Value	Comments
	Housings	
	Phenolic Replacement	
	Structural Parts	

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