

## DuPont Performance Polymers Rynite® RE19051 BK507 PET (Unverified Data\*\*)

Category : Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET) , Polyethylene Terephthalate (PET), 40% Glass Reinforced

### Material Notes:

Rynite® RE19051 BK507 is a 40% glass and mineral reinforced, flame retardant, polyethylene terephthalate black resin. Information provided by DuPont Performance Polymers

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_DuPont-Performance-Polymers-Rynite-RE19051-BK507-PET-nbspUnverified-Data.php](http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Rynite-RE19051-BK507-PET-nbspUnverified-Data.php)

Physical Properties	Metric	English	Comments
Density	1.73 g/cc	0.0625 lb/in <sup>3</sup>	ISO 1183
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
Melt Index of Compound	70 g/10 min @Load 5.00 kg, Temperature 280 °C	70 g/10 min @Load 11.0 lb, Temperature 536 °F	cm3/10 min; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	110 MPa @Temperature 23.0 °C	16000 psi @Temperature 73.4 °F	ISO 527
Elongation at Break	1.7 % @Temperature 23.0 °C	1.7 % @Temperature 73.4 °F	ISO 527
Tensile Modulus	11.0 GPa @Temperature 23.0 °C	1600 ksi @Temperature 73.4 °F	ISO 527
Flexural Strength	170 MPa @Temperature 23.0 °C	24700 psi @Temperature 73.4 °F	ISO 178
Flexural Modulus	9.70 GPa @Temperature 23.0 °C	1410 ksi @Temperature 73.4 °F	ISO 178
Charpy Impact, Notched	0.650 J/cm <sup>2</sup> @Temperature 23.0 °C	3.09 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
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Thermal Properties	Metric /m-°C	English /in-°F	Comments
CTE, linear, Parallel to Flow	@Temperature -40.0 - 23.0 °C	@Temperature -40.0 - 73.4 °F	ISO 11359-1/-2
	500 µm/m-°C	278 µin/in-°F	ISO 11359-1/-2
	@Temperature 23.0 - 55.0 °C	@Temperature 73.4 - 131 °F	
CTE, linear, Transverse to Flow	500 µm/m-°C	278 µin/in-°F	ISO 11359-1/-2
	@Temperature 55.0 - 160 °C	@Temperature 131 - 320 °F	
	61.0 µm/m-°C	33.9 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	@Temperature -40.0 - 23.0 °C	@Temperature -40.0 - 73.4 °F	ISO 11359-1/-2
	78.0 µm/m-°C	43.3 µin/in-°F	ISO 11359-1/-2
	@Temperature 23.0 - 55.0 °C	@Temperature 73.4 - 131 °F	
CTE, linear, Transverse to Flow	110 µm/m-°C	61.1 µin/in-°F	ISO 11359-1/-2
	@Temperature 55.0 - 160 °C	@Temperature 131 - 320 °F	
Melting Point	247 °C	477 °F	10°C/min; ISO 11357-1/-3
Deflection Temperature at 1.8 MPa (264 psi)	214 °C	417 °F	ISO 75-1/-2
Glass Transition Temp, Tg	100 °C	212 °F	10°C/min; ISO 11357-1/-2
UL RTI, Electrical	155 °C	311 °F	UL 746B
	@Thickness 0.810 mm	@Thickness 0.0319 in	
UL RTI, Mechanical with Impact	155 °C	311 °F	UL 746B
	@Thickness 0.810 mm	@Thickness 0.0319 in	
UL RTI, Mechanical without Impact	155 °C	311 °F	UL 746B
	@Thickness 0.810 mm	@Thickness 0.0319 in	
Flammability, UL94	V-0	V-0	UL94
	@Thickness 0.810 mm	@Thickness 0.0319 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	5.00e+14 ohm-cm	5.00e+14 ohm-cm	IEC 60093
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Surface Resistance	>= 1.00e+15 ohm	>= 1.00e+15 ohm	IEC 60093

Electrical Properties	Metric	English	Comments
	@ Temperature 23.0 °C	@ Temperature 73.4 °F	
Dielectric Strength	32.0 kV/mm	813 kV/in	IEC 60243-1
	@ Temperature 23.0 °C	@ Temperature 73.4 °F	

Processing Properties	Metric	English	Comments
Melt Temperature	270 - 290 °C	518 - 554 °F	
Drying Temperature	120 °C	248 °F	
Dry Time	4.00 hour	4.00 hour	
Moisture Content	<= 0.020 %	<= 0.020 %	

Descriptive Properties	Value	Comments
Drying Recommended	Yes	
Forms	Pellets	
Generic	PET	
Material Status	Preliminary Data	
Part Marking Code	>PET-(MD+GF)40FR(17)<	ISO 11469
Processing Method	Injection Molding	
Product Category	Flame Retardant Resins	
	Glass Reinforced Resins	
Resin Identification	PET-(MD+GF)40FR(17)	ISO 1043
RoHS Compliance	Contact Manufacturer	

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