Product Information Rynite® RE5329 BK503 is a 36% glass reinforced polyethylene terephthalate resin developed for ignition systems							
General information	Value		Test Standard				
Resin Identification	PET-(GS+GF)36		ISO 1043				
Part Marking Code	PET-(GS+GF)36		ISO 11469				
Rheological properties	Value		Test Standard				
Melt volume-flow rate		cm <sup>3</sup> /10min	ISO 1133				
Temperature	280	°C	ISO 1133				
Load	2.16		ISO 1133				
Molding shrinkage, parallel	0.4	%	ISO 294-4, 2577				
Molding shrinkage, normal	0.8		ISO 294-4, 2577				
Mechanical properties	Value		Test Standard				
Tensile Modulus	11000		ISO 527-1/-2				
Stress at break	110	MPa	ISO 527-1/-2				
Strain at break	2.2	%	ISO 527-1/-2				
Charpy impact strength, 73°F	21	kJ/m²	ISO 179/1eU				
Charpy notched impact strength, 73°F	3.4	kJ/m²	ISO 1797 1e0				
Thermal properties	Value		Test Standard				
RTI, electrical, 30mil	75	°C	UL 746B				
RTI, impact, 30mil	75	°C	UL 746B				
, , , , , , , , , , , , , , , , , , , ,	75	°C	UL 746B				
RTI, strength, 30mil							
Flammability	Value	Unit	Test Standard				
Burning Behav. at thickness h	HB	class	IEC 60695-11-10				
Thickness tested	0.75	mm	IEC 60695-11-10				
UL recognition	yes	-	UL 94				
Glow Wire Flammability Index, 120mil	960	°C	IEC 60695-2-1/2				
Glow Wire Ignition Temperature, 120mil	725	°C	IEC 60695-2-1/3				
FMVSS Class	<u>B</u>	-	ISO 3795 (FMVSS 302)				
Burning rate, Thickness 1 mm	<100	mm/min	ISO 3795 (FMVSS 302)				
Electrical properties	Value	Unit	Test Standard				
Relative permittivity	4.3		IEC 60250				
100Hz	4.3						
1MHz	3.8	-	156 40050				
Dissipation factor			IEC 60250				
100Hz	11						
1MHz		E-4					
Volume resistivity	>1E13		IEC 60093				
Surface resistivity	1E14		IEC 60093				
Electric strength		kV/mm	IEC 60243-1				
Comparative tracking index	200	-	IEC 60112				
Other properties	Value		Test Standard				
Density	1630		ISO 1183				
VDA Properties	Value		Test Standard				
Fogging, G-value (condensate)	0.2	mg	ISO 6452				
Injection	Value	Unit	Test Standard				
Drying Recommended	yes		-				
Drying Temperature	120		-				
Drying Time, Dehumidified Dryer	4 - 6	h	-				
Processing Moisture Content	≤0.02 <sup>[1]</sup>		-				
Melt Temperature Optimum	285		-				
Min. melt temperature	270		-				
Max. melt temperature	290	°C	-				
Max. screw tangential speed	0.2	m/s	-				

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Mold Temperature Optimum	140	°C	-	
Min. mold temperature	120	°C	-	
Max. mold temperature	140 <sup>[2]</sup>	°C	-	
Hold pressure range	≥80	MPa	-	
Hold pressure time	4	s/mm	-	
Back pressure	As low as possible		-	
Ejection temperature	170	°C	-	

<sup>1:</sup> At levels above 0.02%, strength and toughness will decrease, even though parts may not exhibit surface defects. 2: (6mm - 1mm thickness)

Characteristics			
Processing	<ul> <li>Injection Molding</li> </ul>		
Delivery form	<ul> <li>Pellets</li> </ul>		
Additives	Release agent		
Regional Availability	<ul><li>North America</li><li>Europe</li></ul>	<ul><li>Asia Pacific</li><li>South and Central America</li></ul>	<ul><li>Near East/Africa</li><li>Global</li></ul>

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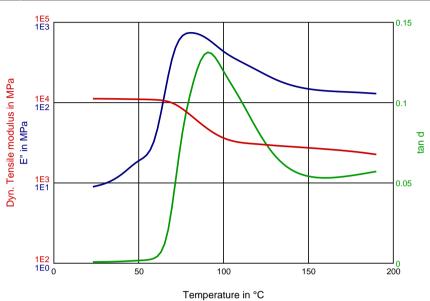
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Diagrams

Dynamic Tensile modulus-temperature



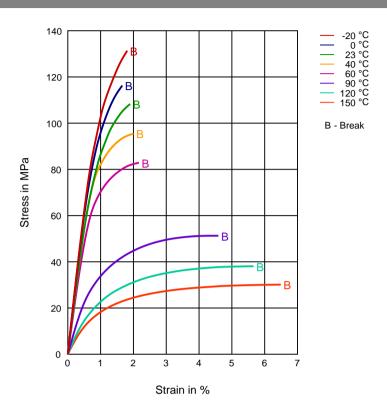
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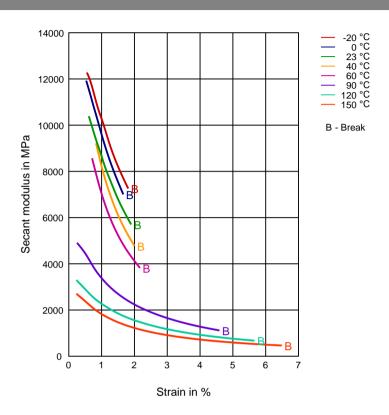
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Secant modulus-strain



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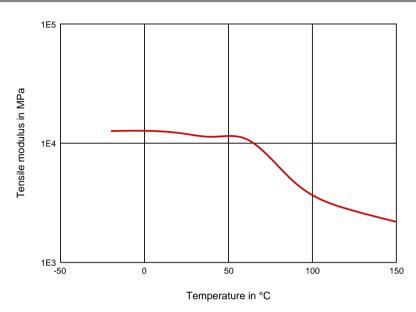
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Tensile modulus-temperature



Contact DuPont for Material Safety Data Sheet, general guides and/or additional information about ventilation, handling, purging, drying, etc. ISO Mechanical properties measured at 160 mil (Hytrel® measured at 80 mil), IEC Electrical properties measured at 80 mil, all ASTM properties measured at 120 mil, and test temperatures are 73°F unless otherwise stated.

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