

# Rynite® 530 NC010 **DuPont Performance Polymers - THERMOPLASTIC POLYESTER RESIN**

Thursday, October 10, 2019

General Information						
Product Description						
30% Glass Reinforced Polyethylene T	erephthalate					
General						
Material Status	Commercial: Active					
Regional Availability	Africa & Middle East     Asia Pacific     Asia Pacific     Asia Pacific     Asia Pacific     Asia Pacific					
Filler / Reinforcement	Glass Fiber, 30% Filler by Weight					
Additive	Mold Release					
RoHS Compliance	Contact Manufacturer					
Automotive Specifications	ASTM D5927 TPES021 G30     FORD WSK-M4D726-A1 Color:     GM GMP.PET.002     Natural					
Forms	Pellets					
Processing Method	Injection Molding					
Part Marking Code (ISO 11469)	• PET-GF30					
Resin ID (ISO 1043)	• PET-GF30					

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Impact	Typical Value	(English)	Typical Value	(SI)	Test Method
Charpy Unnotched Impact Strength					ISO 179/1eU
-22°F (-30°C)	21	ft·lb/in²	45	kJ/m²	
73°F (23°C)	29	ft·lb/in²	60	kJ/m²	
Hardness	Typical Value	(English)	Typical Value	(SI)	Test Method
Rockwell Hardness					ISO 2039-2
M-Scale	100		100		
R-Scale	120		120		
Thermal	Typical Value	(English)	Typical Value	(SI)	Test Method
Heat Deflection Temperature	••			. ,	
66 psi (0.45 MPa), Unannealed	473	°F	245	°C	ISO 75-2/B
264 psi (1.8 MPa), Unannealed	435	°F	224	°C	ISO 75-2/A
Vicat Softening Temperature	446	°F	230	°C	ISO 306/B50
Melting Temperature <sup>2</sup>	486	°F	252		ISO 11357-3
CLTE		•		-	ISO 11359-2
Flow	5 6F-6	in/in/°F	1 0F-5	cm/cm/°C	100 11000-2
Flow : -40 to 73°F (-40 to 23°C)		in/in/°F		cm/cm/°C	
Flow : 131 to 320°F (55 to 160°C)		in/in/°F		cm/cm/°C	
Transverse		in/in/°F		cm/cm/°C	
Transverse : -40 to 73°F (-40 to 23°C)		in/in/°F		cm/cm/°C	
Transverse : 131 to 320°F (55 to 160°C)		in/in/°F		cm/cm/°C	
Thermal Conductivity		Btu·in/hr/ft²/°F		W/m/K	
· ·	1.30E-7		1.30E-7		
Effective Thermal Diffusivity					To at Mathad
Electrical	Typical Value	,	Typical Value		Test Method
Surface Resistivity	1.0E+14		1.0E+14		IEC 62631-3-2
Volume Resistivity		ohms∙m		ohms∙m	IEC 62631-3-1
Electric Strength	810	V/mil	32	kV/mm	IEC 60243-1
Relative Permittivity					IEC 62631-2-1
1 MHz	3.80		3.80		
100 Hz	4.20		4.20		
Dissipation Factor					IEC 62631-2-1
1 MHz	7.0E-3		7.0E-3		
100 Hz	0.013		0.013		
Comparative Tracking Index (CTI)	PLC 2		PLC 2		UL 746
Comparative Tracking Index	250	V	250	V	IEC 60112
Flammability	Typical Value	(English)	Typical Value	(SI)	Test Method
Burning Rate <sup>3</sup> (0.0394 in (1.00 mm))	1.5	in/min	38	mm/min	ISO 3795
Flame Rating					UL 94
0.030 in (0.75 mm)	HB		HB		IEC 60695-11-10
0.06 in (1.5 mm)	HB		HB		-20
Oxygen Index	20	%	20	%	ISO 4589-2
FMVSS Flammability	В		В		FMVSS 302
Fogging - G-value (condensate)	0.0	g	0.0	g	ISO 6452
Fill Analysis	Typical Value	-	Typical Value		
-			170		
Ejection Temperature	338	°⊢	170	C	
Ejection Temperature Additional Information	338 Typical Value		Typical Value		Test Method

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Additional Information	Typical Value	(English)	Typical Value	(SI)	Test Method
Odor	3.00		3.00		VDA 270
	Processin	g Informatio	on		
Injection	Typical Value	(English)	Typical Value	(SI)	
Drying Temperature	248	°F	120	°C	
Drying Time - Desiccant Dryer	4.0 to 6.0	hr	4.0 to 6.0	hr	
Suggested Max Moisture	0.020	%	0.020	%	
Processing (Melt) Temp	536 to 572	°F	280 to 300	°C	
Melt Temperature, Optimum	545	°F	285	°C	
Mold Temperature	248 to 284	°F	120 to 140	°C	
Mold Temperature, Optimum	266	°F	130	°C	
Holding Pressure	11600	psi	80.0	MPa	
Back Pressure	As low as possible		As low as possible		
Drying Recommended	yes		yes		
Hold Pressure Time	4.00	s/mm	4.00	s/mm	
Maximum Screw Tangential Speed	472	in/min	12	m/min	

#### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 10°C/min

<sup>3</sup> FMVSS 302