

NORYL™ EN265 resin

Polyphenylene Ether + PS

SABIC Innovative Plastics

Message:

Extrusion grade. 254F (123C) DTUL. UL94 V-1 rated.

General Information			
UL YellowCard	E121562-221239		
Processing Method	Extrusion		
Multi-Point Data	Elastic Modulus vs Temperature (ASTM D4065)		
	Specific Heat vs. Temperature (ASTM D3417)		
	Tensile Creep (ASTM D2990)		
	Tensile Stress vs. Strain (ASTM D638)		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.08	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.50 - 0.70	%	Internal method
Water Absorption (24 hr)	0.070	%	ASTM D570
Outdoor Suitability	f1		UL 746C
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	119		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	63.4	MPa	ASTM D638
Tensile Elongation ² (Break)	25	%	ASTM D638
Flexural Modulus ³ (100 mm Span)	2550	MPa	ASTM D790
Flexural Strength ⁴ (Yield, 100 mm Span)	99.3	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°C	130	J/m	ASTM D256
23°C	190	J/m	ASTM D256
Dart Drop Impact			ASTM D3029
-40°C	4.07	J	ASTM D3029
-30°C	14.9	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	123	°C	ASTM D648
CLTE - Flow (-40 to 95°C)	5.9E-5	cm/cm/°C	ASTM E831
RTI Elec	110	°C	UL 746
RTI Imp	105	°C	UL 746
RTI	110	°C	UL 746

Electrical	Nominal Value	Unit	Test Method
Dielectric Strength (3.20 mm, in Oil)	20	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
50 Hz	2.69		ASTM D150
60 Hz	2.69		ASTM D150
Dissipation Factor			ASTM D150
50 Hz	7.0E-4		ASTM D150
60 Hz	7.0E-4		ASTM D150
Arc Resistance ⁵	PLC 6		ASTM D495
Comparative Tracking Index (CTI)	PLC 1		UL 746
High Voltage Arc Tracking Rate (HVTR)	PLC 4		UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.50 mm	V-1		UL 94
5.99 mm	V-0		UL 94
Oxygen Index	29	%	ASTM D2863
Radiant Panel Listing (UL)	RP100		
Extrusion	Nominal Value	Unit	
Drying Temperature	104 - 116	°C	
Drying Time	2.0 - 4.0	hr	
Suggested Max Moisture	0.020	%	
Cylinder Zone 1 Temp.	204	°C	
Cylinder Zone 2 Temp.	204	°C	
Cylinder Zone 3 Temp.	227	°C	
Cylinder Zone 4 Temp.	227	°C	
Adapter Temperature	249	°C	
Melt Temperature	227 - 254	°C	
Die Temperature	249	°C	
Extrusion instructions			
Drying Time (Cumulative): 8 hrs			
NOTE			
1.	Type 1, 50mm/min		
2.	Type 1, 50mm/min		
3.	2.6 mm/min		
4.	2.6 mm/min		
5.	Tungsten electrode		

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