

NORYL™ RESIN EN185

REGION AMERICAS

DESCRIPTION

Extrusion grade. Excellent impact strength. 185F (85C) DTUL. UL94 V-1 rated.

TYPICAL PROPERTY VALUES

Revision 20180905

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yld, Type I, 50 mm/min	42	MPa	ASTM D 638
Tensile Strain, brk, Type I, 50 mm/min	50	%	ASTM D 638
Flexural Stress, yld, 2.6 mm/min, 100 mm span	67	MPa	ASTM D 790
Flexural Modulus, 2.6 mm/min, 100 mm span	2270	MPa	ASTM D 790
Hardness, Rockwell R	113	-	ASTM D 785
IMPACT			
Izod Impact, notched, 23°C	389	J/m	ASTM D 256
Izod Impact, notched, -40°C	160	J/m	ASTM D 256
Gardner, -30°C	24	J	ASTM D 3029
Gardner, -40°C	13	J	ASTM D 3029
THERMAL			
HDT, 0.45 MPa, 6.4 mm, unannealed	93	°C	ASTM D 648
HDT, 1.82 MPa, 6.4 mm, unannealed	82	°C	ASTM D 648
CTE, -40°C to 95°C, flow	7.38E-05	1/°C	ASTM E 831
Relative Temp Index, Elec	50	°C	UL 746B
Relative Temp Index, Mech w/impact	50	°C	UL 746B
Relative Temp Index, Mech w/o impact	50	°C	UL 746B
PHYSICAL			
Specific Gravity	1.08	-	ASTM D 792
Water Absorption, 24 hours	0.07	%	ASTM D 570
ELECTRICAL			
Dielectric Strength, in oil, 3.2 mm	24.8	kV/mm	ASTM D 149
Relative Permittivity, 50/60 Hz	2.8	-	ASTM D 150
Dissipation Factor, 50/60 Hz	0.004	-	ASTM D 150
Arc Resistance, Tungsten {PLC}	7	PLC Code	ASTM D 495
Hot Wire Ignition {PLC}	1	PLC Code	UL 746A
High Voltage Arc Track Rate {PLC}	4	PLC Code	UL 746A
High Ampere Arc Ign, surface {PLC}	0	PLC Code	UL 746A
Comparative Tracking Index (UL) {PLC}	2	PLC Code	UL 746A
Dissipation Factor, 1 MHz	0.0035	-	IEC 60250
FLAME CHARACTERISTICS			
UL Recognized, 94V-1 Flame Class Rating	1.49	mm	UL 94
UL Recognized, 94V-0 Flame Class Rating	2.99	mm	UL 94
Radiant Panel Listing	<input checked="" type="checkbox"/>	-	UL Tested
EXTRUSION			

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Drying Temperature	90 – 100	°C	
Drying Time	2 – 4	hrs	
Drying Time (Cumulative)	8	hrs	
Maximum Moisture Content	–	%	
Melt Temperature	195 – 210	°C	
Barrel - Zone 1 Temperature	170	°C	
Barrel - Zone 2 Temperature	170	°C	
Barrel - Zone 3 Temperature	190	°C	
Barrel - Zone 4 Temperature	190	°C	
Adapter Temperature	205	°C	
Die Temperature	205	°C	

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