

FLEX NORYLTM RESIN WCP921A

REGION ASIA

DESCRIPTION

Flexible NORYL injection molding grade. Low specific gravity with good non-halogenated flame retardant performance. Developed for overmolding applications such as plugs, strain reliefs, and connectors. UL 94 V-0 performance with good processability. GreenScreen Approved.

TYPICAL PROPERTY VALUES

PROPERTIES **TYPICAL VALUES** UNITS **TEST METHODS** MECHANICAL 9 MPa Tensile Stress, brk, Type I, 50 mm/min ASTM D 638 120 Tensile Strain, brk, Type I, 50 mm/min % ASTM D 638 Flexural Modulus, 12.5 mm/min, 100 mm span 110 MPa ASTM D 790 92 ASTM D 2240 Hardness, Shore A, 30S reading Tensile Stress, break, 50 mm/min 9 MPa ISO 527 Tensile Strain, break, 50 mm/min 120 % ISO 527 ISO 178 Flexural Modulus, 12.5 mm/min 110 MPa IMPACT Brittleness Temperature <-40 °C ASTM D 746 PHYSICAL Specific Gravity 1.04 ASTM D 792 0.1 Water Absorption, 23°C/48hrs % ASTM D 570 % Mold Shrinkage, flow, 24 hrs 0.4 ASTM D 955 Mold Shrinkage, xflow, 24 hrs 0.4 % ASTM D 955 Melt Flow Rate, 210°C/5 kgf 12 g/10 min ASTM D 1238 Melt Flow Rate, 250°C/2.16 kgf ASTM D 1238 10 g/10 min ELECTRICAL Volume Resistivity 4 F+15 Ohm-cm ASTM D 257 IEC 60243-1 Dielectric strength in oil, 2.0mm 23 kV/mm Relative Permittivity, 1 MHz 2.7 IEC 60250 Dissipation Factor, 1 MHz 0.006 IEC 60250 V IEC 60112 Comparative Tracking Index 600 FLAME CHARACTERISTICS UL Recognized, 94V-0 Flame Class Rating UL 94 6 mm Glow Wire Flammability Index 850°C, passes at 3 IEC 60695-2-12 mm Glow Wire Ignitability Temperature, 3.0 mm 775 °C IEC 60695-2-13 % ISO 4589 Oxygen Index (LOI) 24 INJECTION MOLDING Drying Temperature 60 - 80 °C 4 - 6 hrs Drying Time Drying Time (Cumulative) 8 hrs Maximum Moisture Content 0.01 % °C Melt Temperature 220 - 250220 - 250 °C Nozzle Temperature

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CHEMISTRY THAT MATTERS

Revision 20180905



PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Front - Zone 3 Temperature	220 – 250	°C	
Middle - Zone 2 Temperature	210 - 240	°C	
Rear - Zone 1 Temperature	180 – 220	°C	
Mold Temperature	40 - 60	°C	
Back Pressure	3 – 10	MPa	
Screw Speed	30 - 80	rpm	
Shot to Cylinder Size	30 – 70	%	
Vent Depth	0.03 – 0.05	mm	

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