NORYL GTX™ Resin EXNX0080
Americas: COMMERCIAL

NORYL APS™ EXNX0080 resin is a glass filled, high performance blend of PPE/PPS that exhibits an excellent balance of high-heat resistance, strength, flame retardant, and conductivity. This grade can be electro-statically painted or powder coated without the need for a conductive primer. The resin is injection moldable and only available in black.

TYPICAL PROPERTIES[1]	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, brk, Type I, 5 mm/min	800	kgf/cm²	ASTM D 638
Nominal Stress, yld, Type I, 5 mm/min	800	kgf/cm²	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	0.6	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	0.6	%	ASTM D 638
Tensile Modulus, 5 mm/min	166200	kgf/cm²	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	1200	kgf/cm²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	129900	kgf/cm²	ASTM D 790
Tensile Stress, yield, 5 mm/min	89	MPa	ISO 527
Tensile Stress, break, 5 mm/min	89	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	0.6	%	ISO 527
Tensile Strain, break, 5 mm/min	0.6	%	ISO 527
Tensile Modulus, 1 mm/min	14990	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	0	MPa	ISO 178
Flexural Modulus, 2 mm/min	13640	MPa	ISO 178
IMPACT			
Izod Impact, notched, 23°C	3	cm-kgf/cm	ASTM D 256
Izod Impact, notched, -30°C	3	cm-kgf/cm	ASTM D 256
Instrumented Impact Total Energy, 23°C	36	cm-kgf	ASTM D 3763
Izod Impact, notched 80*10*4 +23°C	34	kJ/m²	ISO 180/1A
Izod Impact, notched 80*10*4 -30°C	34	kJ/m²	ISO 180/1A
Charpy 23°C, V-notch Edgew 80*10*4 sp=62mm	34	kJ/m²	ISO 179/1eA
THERMAL			
Vicat Softening Temp, Rate B/50	231	°C	ASTM D 1525

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TYPICAL PROPERTIES[1]	TYPICAL VALUE	Unit	Standard
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	234	°C	ASTM D 648
CTE, -40°C to 40°C, flow	2.7E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	4.9E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	2.7E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	4.9E-05	1/°C	ISO 11359-2
Vicat Softening Temp, Rate B/50	233	°C	ISO 306
Vicat Softening Temp, Rate B/120	231	°C	ISO 306
HDT/Ae, 1.8 MPa Edgew 120*10*4 sp=100mm	229	°C	ISO 75/Ae
PHYSICAL			
Specific Gravity	1.62	-	ASTM D 792
Mold Shrinkage, flow, 3.2 mm (5)	0.3 - 0.8	%	SABIC Method
Melt Flow Rate, 300°C/2.16 kgf	16	g/10 min	ASTM D 1238
Density	1.62	g/cm³	ISO 1183
Water Absorption, (23°C/sat)	0.02	%	ISO 62
Moisture Absorption (23°C / 50% RH)	0	%	ISO 62
Melt Volume Rate, MVR at 300°C/2.16 kg	10	cm³/10 min	ISO 1133
ELECTRICAL			
Volume Resistivity	2.5E+04	Ohm-cm	ASTM D 257