

# NORYL™ RESIN RN0401

REGION ASIA

## DESCRIPTION

NORYL RN0401 resin is an unfilled Post Consumer Recycle (PCR) based injection moldable modified polyphenylene ether blend comprising at least 20% PCR content. Available in black only.

## TYPICAL PROPERTY VALUES

Revision 20180905

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>MECHANICAL</b>			
Tensile Stress, yld, Type I, 50 mm/min	55	MPa	ASTM D 638
Tensile Stress, brk, Type I, 50 mm/min	40	MPa	ASTM D 638
Tensile Strain, yld, Type I, 50 mm/min	3	%	ASTM D 638
Tensile Strain, brk, Type I, 50 mm/min	15	%	ASTM D 638
Tensile Modulus, 5 mm/min	2100	MPa	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	80	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	2500	MPa	ASTM D 790
Tensile Stress, yield, 50 mm/min	50	MPa	ISO 527
Tensile Stress, break, 50 mm/min	35	MPa	ISO 527
Tensile Strain, yield, 50 mm/min	3	%	ISO 527
Tensile Strain, break, 50 mm/min	15	%	ISO 527
Tensile Modulus, 1 mm/min	2200	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	75	MPa	ISO 178
Flexural Modulus, 2 mm/min	2300	MPa	ISO 178
<b>IMPACT</b>			
Izod Impact, notched, 23°C	100	J/m	ASTM D 256
Izod Impact, notched 80°10°4 +23°C	9	kJ/m <sup>2</sup>	ISO 180/1A
<b>THERMAL</b>			
HDT, 1.82 MPa, 3.2mm, unannealed	70	°C	ASTM D 648
Vicat Softening Temp, Rate B/120	94	°C	ISO 306
HDT/Af, 1.8 MPa Flatw 80°10°4 sp=64mm	70	°C	ISO 75/Af
Relative Temp Index, Elec	65	°C	UL 746B
Relative Temp Index, Mech w/impact	65	°C	UL 746B
Relative Temp Index, Mech w/o impact	65	°C	UL 746B
<b>PHYSICAL</b>			
Specific Gravity	1.12	-	ASTM D 792
Melt Flow Rate, 260°C/5.0 kgf	30	g/10 min	ASTM D 1238
Density	1.11	g/cm <sup>3</sup>	ISO 1183
Melt Volume Rate, MVR at 260°C/5.0 kg	30	cm <sup>3</sup> /10 min	ISO 1133
<b>ELECTRICAL</b>			
Dielectric Strength, in oil, 3.2 mm	25	kV/mm	ASTM D 149
Arc Resistance, Tungsten {PLC}	7	PLC Code	ASTM D 495
High Voltage Arc Track Rate {PLC}	3	PLC Code	UL 746A
Comparative Tracking Index (UL) {PLC}	2	PLC Code	UL 746A

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<b>FLAME CHARACTERISTICS</b>			
UL Compliant, 94V-0 Flame Class Rating	2	mm	UL 94 by SABIC-IP
<b>INJECTION MOLDING</b>			
Drying Temperature	70 – 80	°C	
Drying Time	2 – 4	hrs	
Melt Temperature	240 – 270	°C	
Mold Temperature	60 – 80	°C	

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