



NORYL™ Resin ENG265
Americas: COMMERCIAL

PPE+PS blend. Unfilled. Suitable for profile extrusion. NSF listed for potable water use in several colors (Standard 61). Low water absorption. Hydrolytic stability. Dimensional stability. Typical applications include tubes for reverse osmosis systems.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, break	500	kgf/cm ²	ASTM D 638
Tensile Stress, yld, Type I, 50 mm/min	570	kgf/cm ²	ASTM D 638
Tensile Strain, yield	3.3	%	ASTM D 638
Tensile Strain, brk, Type I, 50 mm/min	28	%	ASTM D 638
Tensile Modulus, 5 mm/min	24400	kgf/cm ²	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	900	kgf/cm ²	ASTM D 790
Flexural Stress, yld, 2.6 mm/min, 100 mm span	890	kgf/cm ²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	26000	kgf/cm ²	ASTM D 790
Flexural Modulus, 2.6 mm/min, 100 mm span	24900	kgf/cm ²	ASTM D 790
Hardness, Rockwell R	119	-	ASTM D 785
Tensile Stress, yield	55	MPa	ISO 527
Tensile Stress, break	50	MPa	ISO 527
Tensile Strain, yield	3.1	%	ISO 527
Tensile Strain, break	27	%	ISO 527
Tensile Modulus, 1 mm/min	2550	MPa	ISO 527
Flexural Stress	95	MPa	ISO 178
Flexural Modulus	2500	MPa	ISO 178
IMPACT			
Izod Impact, notched, 23°C	19	cm-kgf/cm	ASTM D 256
Izod Impact, notched, -30°C	11	cm-kgf/cm	ASTM D 256
Gardner, -30°C	262	cm-kgf	ASTM D 3029
Gardner, -40°C	55	cm-kgf	ASTM D 3029



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TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
IMPACT			
Instrumented Impact Total Energy, 23°C	397	cm-kgf	ASTM D 3763
Izod Impact, notched 80*10*4 +23°C	13	kJ/m ²	ISO 180/1A
Izod Impact, notched 80*10*4 -30°C	8	kJ/m ²	ISO 180/1A
Charpy Impact, notched, 23°C	13	kJ/m ²	ISO 179/2C
Charpy Impact, notched, -30°C	10	kJ/m ²	ISO 179/2C
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	132	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	118	°C	ASTM D 648
HDT, 0.45 MPa, 6.4 mm, unannealed	137	°C	ASTM D 648
HDT, 1.82 MPa, 6.4 mm, unannealed	126	°C	ASTM D 648
CTE, -40°C to 95°C, flow	5.94E-05	1/°C	ASTM E 831
Vicat Softening Temp, Rate B/50	137	°C	ISO 306
Vicat Softening Temp, Rate B/120	141	°C	ISO 306
Relative Temp Index, Elec	105	°C	UL 746B
Relative Temp Index, Mech w/impact	90	°C	UL 746B
Relative Temp Index, Mech w/o impact	105	°C	UL 746B
PHYSICAL			
Specific Gravity	1.06	-	ASTM D 792
Water Absorption, 24 hours	0.06	%	ASTM D 570
Mold Shrinkage, flow, 3.2 mm (5)	0.5 - 0.7	%	SABIC Method
Melt Flow Rate, 280°C/5.0 kgf	8.4	g/10 min	ASTM D 1238
Melt Volume Rate, MVR at 280°C/5.0 kg	8	cm ³ /10 min	ISO 1133
ELECTRICAL			
Dielectric Strength, in oil, 3.2 mm	19.6	kV/mm	ASTM D 149
Relative Permittivity, 50/60 Hz	2.65	-	ASTM D 150
Dissipation Factor, 50/60 Hz	0.0004	-	ASTM D 150



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TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
ELECTRICAL			
Arc Resistance, Tungsten {PLC}	7	PLC Code	ASTM D 495
Hot Wire Ignition {PLC}	2	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}	3	PLC Code	UL 746A
FLAME CHARACTERISTICS			
UL Recognized, 94HB Flame Class Rating (3)	1.47	mm	UL 94



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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Extrusion		
Drying Temperature	105 - 115	°C
Drying Time	2 - 4	hrs
Drying Time (Cumulative)	8	hrs
Maximum Moisture Content	0.02	%
Melt Temperature	225 - 255	°C
Barrel - Zone 1 Temperature	205	°C
Barrel - Zone 2 Temperature	205	°C
Barrel - Zone 3 Temperature	225	°C
Barrel - Zone 4 Temperature	225	°C
Adapter Temperature	250	°C
Die Temperature	250	°C