

NORYL™ RESIN SE1

REGION AMERICAS

DESCRIPTION

SINGLE LOT DATA. PPE+PS. Improved productivity and reliability. Nonchlorinated, nonbrominated flame retardant.

TYPICAL PROPERTY VALUES

Revision 20250613

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yld, Type I, 50 mm/min	64	MPa	ASTM D638
Tensile Stress, brk, Type I, 50 mm/min	53	MPa	ASTM D638
Tensile Strain, yld, Type I, 50 mm/min	7.9	%	ASTM D638
Tensile Strain, brk, Type I, 50 mm/min	36.1	%	ASTM D638
Tensile Modulus, 50 mm/min	2550	MPa	ASTM D638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	104	MPa	ASTM D790
Flexural Modulus, 1.3 mm/min, 50 mm span	2750	MPa	ASTM D790
Hardness, Rockwell R	121	-	ASTM D785
Tensile Stress, yield, 50 mm/min	61	MPa	ISO 527
Tensile Stress, break, 50 mm/min	55	MPa	ISO 527
Tensile Strain, yield, 50 mm/min	7.7	%	ISO 527
Tensile Strain, break, 50 mm/min	16.8	%	ISO 527
Tensile Modulus, 1 mm/min	2720	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	103	MPa	ISO 178
Flexural Modulus, 2 mm/min	2490	MPa	ISO 178
IMPACT			
Izod Impact, notched, 23°C	165	J/m	ASTM D256
Izod Impact, notched, -30°C	90	J/m	ASTM D256
Instrumented Dart Impact Total Energy, 23°C	28	J	ASTM D3763
Izod Impact, notched 80*10*4 +23°C	15	kJ/m ²	ISO 180/1A
THERMAL			
Vicat Softening Temp, Rate B/50	147	°C	ASTM D1525
HDT, 0.45 MPa, 3.2 mm, unannealed	128	°C	ASTM D648
HDT, 1.82 MPa, 3.2mm, unannealed	113	°C	ASTM D648
HDT, 0.45 MPa, 6.4 mm, unannealed	132	°C	ASTM D648
HDT, 1.82 MPa, 6.4 mm, unannealed	121	°C	ASTM D648
CTE, -40°C to 40°C, flow	1.08E-04	1/°C	ASTM E831
CTE, -40°C to 40°C, xflow	1.12E-04	1/°C	ASTM E831
HDT/Be, 0.45MPa Edgew 120*10*4 sp=100mm	130	°C	ISO 75/Be
HDT/Ae, 1.8 MPa Edgew 120*10*4 sp=100mm	115	°C	ISO 75/Ae
PHYSICAL			
Specific Gravity	1.07	-	ASTM D792
Mold Shrinkage, flow, 3.2 mm	0.5 – 0.7	%	SABIC method
Melt Flow Rate, 300°C/5.0 kgf	35.9	g/10 min	ASTM D1238
FLAME CHARACTERISTICS			



PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Radiant Panel Listing	RP100	-	UL Tested

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