

# CYCOLAC<sup>TM</sup> RESIN INP564

REGION AMERICAS

## DESCRIPTION

High flow powder SAN for color concentrates and alloys. FDA compliant (part use must be at room temperature or below).

## TYPICAL PROPERTY VALUES

Revision 20181012

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>MECHANICAL</b>			
Tensile Stress, yld, Type I, 5 mm/min	52	MPa	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	53	MPa	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	1.6	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	1.7	%	ASTM D 638
Tensile Modulus, 5 mm/min	3890	MPa	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	82	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	3720	MPa	ASTM D 790
Hardness, Rockwell R	123	-	ASTM D 785
Tensile Stress, yield, 50 mm/min	54	MPa	ISO 527
Tensile Stress, break, 50 mm/min	54	MPa	ISO 527
Tensile Strain, yield, 50 mm/min	1.2	%	ISO 527
Tensile Strain, break, 50 mm/min	1.2	%	ISO 527
Tensile Modulus, 1 mm/min	3840	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	65	MPa	ISO 178
Flexural Modulus, 2 mm/min	3460	MPa	ISO 178
<b>IMPACT</b>			
Izod Impact, notched, 23°C	14	J/m	ASTM D 256
Izod Impact, notched, -30°C	22	J/m	ASTM D 256
Izod Impact, notched 80°10'4 +23°C	1	kJ/m <sup>2</sup>	ISO 180/1A
Izod Impact, notched 80°10'4 -30°C	2	kJ/m <sup>2</sup>	ISO 180/1A
Charpy Impact, notched, 23°C	1	kJ/m <sup>2</sup>	ISO 179/2C
<b>THERMAL</b>			
HDT, 0.45 MPa, 3.2 mm	95	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	83	°C	ASTM D 648
Vicat Softening Temp, Rate B/50	101	°C	ISO 306
Vicat Softening Temp, Rate B/120	104	°C	ISO 306
HDT/Af, 1.8 MPa Flatw 80°10'4 sp=64mm	85	°C	ISO 75/Af
<b>PHYSICAL</b>			
Specific Gravity	1.08	-	ASTM D 792
Melt Flow Rate, 230°C/3.8 kgf	37.8	g/10 min	ASTM D 1238
Density	1.07	g/cm <sup>3</sup>	ISO 1183
Melt Flow Rate, 220°C/10.0 kg	78	g/10 min	ISO 1133



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