CYCOLAC™ RESIN INP563

REGION AMERICAS

DESCRIPTION

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

TYPICAL PROPERTY VALUES

Revision 20190207

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	69	MPa	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	69	MPa	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	2.4	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	2.4	%	ASTM D 638
Tensile Modulus, 5 mm/min	3860	MPa	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	93	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	3770	MPa	ASTM D 790
Hardness, Rockwell R	123	-	ASTM D 785
Tensile Stress, yield, 50 mm/min	74	MPa	ISO 527
Tensile Stress, break, 50 mm/min	74	MPa	ISO 527
Tensile Strain, yield, 50 mm/min	2	%	ISO 527
Tensile Strain, break, 50 mm/min	2	%	ISO 527
Tensile Modulus, 1 mm/min	3970	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	46	MPa	ISO 178
Flexural Modulus, 2 mm/min	3460	MPa	ISO 178
IMPACT			
Izod Impact, notched, 23°C	18	J/m	ASTM D 256
Izod Impact, notched, -30°C	22	J/m	ASTM D 256
Izod Impact, notched 80*10*4 +23°C	2	kJ/m²	ISO 180/1A
Izod Impact, notched 80*10*4 -30°C	2	kJ/m²	ISO 180/1A
Charpy Impact, notched, 23°C	1	kJ/m²	ISO 179/2C
THERMAL			
HDT, 0.45 MPa, 3.2 mm	95	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	82	°C	ASTM D 648
Vicat Softening Temp, Rate B/50	102	°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
PHYSICAL			
Specific Gravity	1.08	-	ASTM D 792
Melt Flow Rate, 230°C/3.8 kg	19.5	g/10 min	ASTM D 1238
Density	1.08	g/cm³	ISO 1183
Melt Flow Rate, 220°C/10.0 kg	47	g/10 min	ISO 1133

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