CYCOLAC™ RESIN INP581

REGION AMERICAS

DESCRIPTION

High flow SAN pellets. 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	48	MPa	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	60	MPa	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	1.5	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	1.9	%	ASTM D 638
Tensile Modulus, 5 mm/min	4080	MPa	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	66	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	3440	MPa	ASTM D 790
Hardness, Rockwell R	122	-	ASTM D 785
Flexural Stress, yield, 2 mm/min	36	MPa	ISO 178
Flexural Modulus, 2 mm/min	3520	MPa	ISO 178
IMPACT			
Izod Impact, notched, 23°C	23	J/m	ASTM D 256
Izod Impact, notched, -30°C	12	J/m	ASTM D 256
Izod Impact, notched 80*10*4 +23°C	1	kJ/m²	ISO 180/1A
Izod Impact, notched 80*10*4 -30°C	1	kJ/m²	ISO 180/1A
Charpy Impact, notched, 23°C	1	kJ/m²	ISO 179/2C
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	97	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	86	°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	82	°C	ISO 75/Af
PHYSICAL			
Specific Gravity	1.08	-	ASTM D 792
Melt Flow Rate, 230°C/3.8 kg	37.7	g/10 min	ASTM D 1238
Density	1.07	g/cm³	ISO 1183
Melt Flow Rate, 220°C/10.0 kg	98	g/10 min	ISO 1133
OPTICAL			
Yellowness Index	1	-	ASTM D 1925

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