

Technical Data Sheet
Type: Isoplast® 202EZ is an engineering thermoplastic resin.

Typical Properties	Test Method	English		S.I.	
		Values*	Units	Values*	Units
Physical					
Gardner 60° Gloss	ASTM D823	-	%	-	%
Mold Shrinkage	ASTM D 955	0.004-0.006	In/in	0.004-0.006	mm/mm
Water Absorption, 24 hours at 73°F (23°C)	ASTM D 570	-	%	-	%
Specific Gravity	ASTM D 792	1.20		1.20	
Mechanical					
Tensile Strength at Yield	ASTM D 638	10,000	psi	69	MPa
Tensile Strength at Break	ASTM D 638	9,000	psi	63	MPa
Elongation at Yield	ASTM D 638	9	%	9	%
Elongation at Break	ASTM D 638	90	%	90	%
Tensile Modulus	ASTM D 638	260,000	psi	1,800	MPa
Flexural Strength	ASTM D 790	13,000	psi	90	MPa
Flexural Modulus	ASTM D 790	320,000	psi	2,200	MPa
Izod Impact Strength	ASTM D 256	10	ft-lb/in	534	J/m
- Notched, 1/8" (3.2 mm), 73°F (23°C)		3	ft-lb/in	160	J/m
- Notched, 1/8" (3.2 mm), -40°F (-40°C)		-	ft-lb/in	-	J/m
Instrumented Dart Impact	ASTM D 3763	400	In-lb	45	J
- Total Energy at 73°F (23°C)		300	In-lb	34	J
Rockwell Hardness	ASTM D 785	-		-	
- R Scale		-		-	
Thermal					
Deflection Temperature Under Load	ASTM D 648	260	°F	127	°C
- 66 psi (0.45 MPa), unannealed		290	°F	143	°C
- 66 psi (0.45 MPa), annealed		240	°F	116	°C
- 264 psi (1.8 MPa), unannealed		280	°F	138	°C
- 264 psi (1.8 MPa), annealed					
Vicat Temperature	ASTM D 1525	292	°F	144	°C
Coefficient of Linear Thermal Expansion	ASTM D 696	3.7	10 ⁻⁵ in/in/°F	6.7	10 ⁻⁵ mm/mm/°C
Optical					
Light Transmission	ASTM D 1003	-	%	-	%
Yellowness Index	ASTM D 1925	-	%	-	%
Processing Information					
Recommended Drying Temperature		260-280	°F	127-138	°C
Recommended Melt Temperature		460-500	°F	238-260	°C
Recommended Mold Temperature		200-250	°F	93-121	°C

*Typical values, not to be construed as specifications. Users should confirm results by their own tests.

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