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INSTANT SET POLYMER (ISP)

Instant Set Polymer (ISP) is a solid polyurethane material developed in the mid-1970's by the Dow Chemical Company. Through unique chemistry, thick section parts (4" wall thickness) can be produced. The final product is rigid, tough, and exhibits excellent fatigue resistance. Being a plastic, it has good electrical insulating properties and atmospheric corrosion resistance. ISP is colored throughout with high visibility safety yellow, is cadmium free and has shown outstanding weatherability because it has a unique internal UV screen. In addition, this material has excellent machinability — it can be drilled, tapped, sawed, and shaped. The following list is a summary of typical physical properties. Testing was run in accordance with ASTM procedures.

Density, kg/dm ³	1.16	ASTM D792
Flexural Modulus Of Elasticity, (N/mm ²)	1931	ASTM D790
Tensile Strength, (N/mm ²)	59	ASTM D638
Compressive Strength, (N/mm ²)	63	ASTM D695
Elongation, %	15	ASTM D638
Heat Distortion Temperature, °C	88	ASTM D648
Izod Impact, ft-lbs/inch of notch	1.0	ASTM D256
Hardness, Shore D	76	-----

ISP is an excellent choice when strength, weatherability, corrosion resistance, and/or insulating properties are required. Successful uses include the following applications:

Safety Gates	Housings
Insulators	Valve Yokes
Pole Line Hardware	Encapsulations

Intrepid offers full service. We can fabricate prototypes, make molds, mold parts, and finish products (drill, tap, machine, etc.). If we can be of service or provide further information, please contact us.