

Si25

Flexible Resin

Good for snap fits.

Si25 is a tough, flexible, white polypropylene simulant, suitable for production snap fits, concept models and functional assembly components.



Benefits

- **Accurate**
- **Durable**
- **Aesthetics of moulded polypropylene**

Applications

- Functional components for assemblies and mock ups
- Master patterns for RTV/Silicone Mouldings
- Automotive styling parts/Consumer Electronic components/Toys
- Snap fit assemblies
- Replace CNC Machining of polypropylene for short run plastic parts
- Simulate injection moulded parts
- Concept & Marketing Models



Physical Properties

Colour	White
Type	Simulates PP

Mechanical Properties

		TEST/ISO
Hardness Shore A/D	80D	868
Flexural Strength (MPa)	55 - 58	ATSM D790
Flexural Modulus (MPa)	1,380 - 1,660	
Tensile Strength (MPa)	38	ATSM D638
Tensile Modulus (MPa)	1,590 - 1,660	
Elongation Break (%)	13-20	
Impact Strength (J/m)	19 - 24	ATSM D256
Density (g/cm ³)	1.13	

Thermal & Specific Properties

Glass Transition Temperature Tg (°C)	60	DMA,E''
Heat Deflection Temperature (°C)		
@ 0.46MPa	58 - 63	ATSM D648
@ 1.81MPa	51 - 55	
Co-efficient of Thermal Expansion (µ/m°C)		
TMA (T<Tg, 0 - 20°C)	107	ATSM E831-93
TMA (T<Tg, 90 - 150°C)	151	

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