

# 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	<b>80D</b>	868
Flexural Strength (MPa)	<b>55 - 58</b>	ATSM D790
Flexural Modulus (MPa)	<b>1,380 - 1,660</b>	
Tensile Strength (MPa)	<b>38</b>	ATSM D638
Tensile Modulus (MPa)	<b>1,590 - 1,660</b>	
Elongation Break (%)	<b>13-20</b>	
Impact Strength (J/m)	<b>19 - 24</b>	ATSM D256
Density (g/cm <sup>3</sup> )	<b>1.13</b>	

### Thermal & Specific Properties

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

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