

# Taurus

## Durable, High Temperature

Ideal for the most demanding functional prototyping and even end-use applications

*Simulating charcoal ABS, Taurus can offer thermoplastic-like performance and feel, with ultimate strength and durability.*



### Benefits

- Excellent quality and isotropy for highly detailed parts
- Heat tolerance of up to 90°
- Superior strength and durability

### Applications

- High-impact casings
- High-impact plastic requirements
- Functional prototypes
- Load-bearing components
- Housings



### Physical Properties

Colour	Charcoal
Type	ABS like resin

### Mechanical Properties

	UV Postcure	Thermal Postcure	TEST/ISO
Hardness Shore D	<b>83</b>	<b>83</b>	ASTM D2240-15
Flexural Strength (MPa)	<b>73.8</b>	<b>62.7</b>	ASTM D790-15e2
Flexural Modulus (MPa)	<b>2.054</b>	<b>1.724</b>	
Tensile Strength (MPa)	<b>46.9</b>	<b>49</b>	ASTM D638-14
Tensile Modulus (MPa)	<b>2.310</b>	<b>2.206</b>	ASTM D638-14
Elongation Break (%)	<b>24</b>	<b>17</b>	ASTM D256-10e1
Impact Strength (J/m)	<b>47.5</b>	<b>35.8</b>	
Density (g/cm <sup>3</sup> )	<b>1.13</b>	<b>1.13</b>	

### Thermal & Specific Properties

	UV Postcure	Thermal Postcure	TEST/ISO
Glass Transition Temperature Tg (°C)	<b>53</b>	<b>54</b>	ASTM D3418-15
Heat Deflection Temperature (°C)			
@ 0.46 MPa	<b>62</b>	<b>91</b>	ASTM D648-16
@ 1.81 MPa	<b>50</b>	<b>73</b>	
Co-efficient of Thermal Expansion (µ/m°C)			
TMA (T<Tg, -40 - 0°C)	<b>76.5</b>	<b>71.4</b>	ASTM E831-14
TMA (T<Tg, 0 - 50°C)	<b>105.3</b>	<b>103.4</b>	
TMA (T<Tg, 50 - 100°C)	<b>151.9</b>	<b>157.5</b>	
TMA (T<Tg, 100 - 150°C)	<b>171.4</b>	<b>173.4</b>	

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