

AURUM[®] J-2556

THERMOPLASTIC RESIN FOR HIGH-TEMPERATURE RESISTANCE

AURUM[®] J-2556 resin is specified for high temperature aggressive environments requiring balanced mechanical properties and low wear and friction performance. J-2556 resin is produced from filled thermoplastic polyimide (TPI) composition.

Typical Properties of AURUM[®] J-2556

Mechanical Property	Temperature	Test Method	Units	Typical Values
Tensile Strength	23 °C (73 °F) 150 °C (302 °F)	ASTM D638	MPa (kpsi)	142 (20.6) 106 (15.4)
Elongation at Break	23 °C (73 °F) 150 °C (302 °F)	ASTM D638	%	1.9 1.7
Flexural Strength	23 °C (73 °F) 150 °C (302 °F)	ASTM D790	MPa (kpsi)	182 (26.4) 130 (18.9)
Flexural Modulus	23 °C (73 °F) 150 °C (302 °F)	ASTM D790	GPa (kpsi)	9.6 (1,400) 10.2 (1,470)
Compressive Strength	23 °C (73 °F)	JIS K-7214	MPa (kpsi)	163 (23.6)
Compressive Modulus	23 °C (73 °F)	JIS K-7214	GPa (kpsi)	13.7 (1,990)
Notched Izod 3.2 mm (0.13 in)	23 °C (73 °F)	ASTM D256	J/m (ft·lb/in)	64 (1.2)
Unnotched Izod	23 °C (73 °F)	ASTM D256	J/m (ft·lb/in)	331 (6.2)
Thermal Property				
HDT at 1.8 MPa (264 psi)		ASTM D648	°C (°F)	244 (471)
CTE Flow Direction	23–150 °C (73–302 °F)	ASTM E228	ppm/°C (ppm/°F)	8 (4.4)
CTE Transverse Direction	23–150 °C (73–302 °F)	ASTM E228	ppm/°C (ppm/°F)	36 (20)
Other Properties				
Specific Gravity		ASTM D792		1.46
Water Absorption, 24 hr	23 °C (73 °F)	ASTM D570	%	0.2

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