Property Data

Envalior
Imagine the Future

ForTii® Ace JTX8

PPA–GF30

30% Glass Reinforced, PA4T, Electro–friendly, Improved resistance to blistering during reflow – soldering process, Improved color stability

Print Date: 2025–01–24

ForTii® Ace JTX8 is the only polyamide grade in the world that secures, in all product designs, the JEDEC MSL 1 rating at all thicknesses. Ace JTX8 has the highest Tg available in polyamides (160°C) to satisfy various industry requirements like chemical resistance and high temperature thermal ageing. Ace JTX8 has extremely robust processing performance and allows 100% regrinding with high mechanical properties retention.

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	**DRY / COND**		
Molding shrinkage (parallel)	0.43 / *	%	ISO 294–4
Molding shrinkage (normal)	1.2 / *	%	ISO 294–4
MECHANICAL PROPERTIES	**DRY / COND**		
Tensile modulus	11000 / 11000	MPa	ISO 527–1/–2
Tensile modulus (–40°C)	11700 / –	MPa	ISO 527–1/–2
Tensile modulus (40°C)	10500 / –	MPa	ISO 527–1/–2
Tensile modulus (80°C)	10300 / 9500	MPa	ISO 527–1/–2
Tensile modulus (100°C)	10200 / –	MPa	ISO 527–1/–2
Tensile modulus (120°C)	9500 / –	MPa	ISO 527–1/–2
Tensile modulus (160°C)	6000	MPa	ISO 527–1/–2
Tensile modulus (200°C)	4000	MPa	ISO 527–1/–2
Stress at break	210 / 190	MPa	ISO 527–1/–2
Stress at break (–40°C)	240 / –	MPa	ISO 527–1/–2
Stress at break (40°C)	200 / –	MPa	ISO 527–1/–2
Stress at break (80°C)	180 / 120	MPa	ISO 527–1/–2
Stress at break (100°C)	170 / –	MPa	ISO 527–1/–2
Stress at break (120°C)	150 / –	MPa	ISO 527–1/–2
Stress at break (160°C)	100	MPa	ISO 527–1/–2
Stress at break (200°C)	75	MPa	ISO 527–1/–2

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Strain at break	2.7 / 2.5	%	ISO 527–1/–2
Strain at break (–40°C)	2.8 / –	%	ISO 527–1/–2
Strain at break (40°C)	2.6 / –	%	ISO 527–1/–2
Strain at break (80°C)	2.8 / 3	%	ISO 527–1/–2
Strain at break (100°C)	2.7 / –	%	ISO 527–1/–2
Strain at break (120°C)	3 / –	%	ISO 527–1/–2
Strain at break (160°C)	5	%	ISO 527–1/–2
Strain at break (200°C)	6	%	ISO 527–1/–2
Flexural modulus	10500 / 10500	MPa	ISO 178
Flexural strength	300 / 275	MPa	ISO 178
Flexural modulus (120°C)	9500	MPa	ISO 178
Flexural modulus (160°C)	5700	MPa	ISO 178
Flexural modulus (200°C)	3900	MPa	ISO 178
Charpy impact strength (+23°C)	70 / 60	kJ/m²	ISO 179/1eU
Charpy impact strength (–30°C)	65 / 55	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	10 / 8	kJ/m²	ISO 179/1eA
Charpy notched impact strength (–30°C)	10 / 8	kJ/m²	ISO 179/1eA

THERMAL PROPERTIES	DRY / COND		
Melting temperature (10°C/min)	340 / *	°C	ISO 11357–1/–3
Temp. of deflection under load (1.80 MPa)	320 / *	°C	ISO 75–1/–2
Coeff. of linear therm. expansion (parallel)	0.18 / *	E–4/°C	ISO 11359–1/–2
Coeff. of linear therm. expansion (normal)	0.6 / *	E–4/°C	ISO 11359–1/–2
Burning Behav. at 3.0 mm nom. thickn.	HB / *	class	IEC 60695–11–10
Thickness tested	HB / *	mm	IEC 60695–11–10
UL recognition	3 / *	–	–
Thermal Index 5000 hrs	174	°C	IEC 60216/ISO 527–1/–2

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
ELECTRICAL PROPERTIES	**DRY / COND**		
Volume resistivity	>1E13 / >1E13	Ohm*m	IEC 62631–3–1
Electric strength	45 / 40	kV/mm	IEC 60243–1
Comparative tracking index	600 / –	V	IEC 60112
Relative permittivity (1GHz)	3.92 / 3.88	–	IEC 61189–2–721
Relative permittivity (10GHz)	3.83 / –	–	IEC 61189–2–721
OTHER PROPERTIES	**DRY / COND**		
Humidity absorption	2 / *	%	Sim. to ISO 62
Density	1460 / –	kg/m³	ISO 1183

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