

More than just a nylon, a family of nylon solutions.

## Typical Zytel® Applications

- cable ties • connectors • bearing cages • switch components • air intake manifolds
- fan shrouds • gearbox housings • thermostat housings • sporting goods
- automotive power steering wells • lighting reflectors & bezels
- high impact housings • extruded profiles & tubes

## Unfilled Zytel® PA6, PA6.6, PA10.10, PA6.12

- Excellent chemical resistance
- Food & water approvals
- High viscosity extrusion grades

## Glass Reinforced Zytel® PA6, PA6.6, PA6.6/6, PA6.12

- Increased strength & stiffness
- Increased creep resistance
- Increased temperature performance
- Increased dimensional stability

## Flame Retardant Zytel® PA6, PA6.6

- Unreinforced UL94 V0 @ <1mm
- 25% glass reinforced, UL V0 @ 0.5mm, 5VA @ 1.5mm
- 20% & 30% mineral reinforced UL94 V0 @ 1mm, 5VA @ 1.5 mm

## Tough & Super Tough Zytel® PA6, PA6.6

- Excellent one-off & repeated impact resistance
- Unreinforced
- Glass reinforced
- High flow grades

## Zytel® Specialities

- Clear amorphous nylon
- Hydrolysis & hot oil resistant grades
- Improved UV resistance
- Flexible nylons
- Kevlar® reinforced grades
- Conductive grades

## Minlon® PA6, PA6.6

- Mineral reinforced
- Glass / mineral combinations
- Low warpage
- Dimensional stability
- Paintable & chrome-platable grades

## Typical Zytel® Properties

Properties	HDT	RTI		Vicat Softening	Tensile Modulus	Notched Charpy Impact Strength	Flammability	Glow Wire	CTI
		Electrical	Mechanical						
Standard	ASTM D695	UL746B	UL746B	ISO 527-1/2	ISO 527-1/2	ISO 179 / 1eA	UL94	IEC 695-2-1	IEC 112
Conditions	1.8 MPa	3 mm	3 mm	50N	1mm / min 50% RH	23°C 50% RH	1.6mm	3mm plate	CTI
Units	°C	°C	°C	°C	MPa	kJ/m²		°C	V
E101 L Unreinforced & lubricated	70	135	75	238	1200	13	V2	960	600
70G30 HSL 30% Glass reinforced heat stabilised & lubricated	254	140	140	250	7500	16	HB	750	400
FR70G25 V0 25% Glass reinforced & flame retardant	243	130	120	233	7500	10 (DAM)	V0 @ 0.5mm 5VA @ 1.5mm	960	325
ST801 Super tough unreinforced	64	125	75	207	900	115	HB	650	600

## Zytel® Processing & Handling Guide\*

Grade	Melt Temp	Barrel Temperatures				Mould Temp	Screw Speed	Back Pressure	Drying Temp	Drying Time
		Rear	Middle	Front	Nozzle					
	°C	°C	°C	°C	°C	°C	m/s		°C	hrs
E101 L	280 ~ 305	290	290	290	265	70 (40~95)	0.4	low	80	2 ~ 4
70G30 HSL	280 ~ 305	295	295	295	270	110 (65~120)	0.15	low	80	2 ~ 4
FR70G25 V0	270 ~ 280	270	270	270	245	70 (50~90)	0.15	low	80	2 ~ 4
ST801	275 ~ 295	290	290	290	265	70 (60~80)	0.3	low	80	2 ~ 4

\* This should only be used as a guide as part geometry, thickness, processing temperatures and rates will affect final cycle conditions

### Purging

Empty the barrel for idle periods of 10 to 15 mins. Optimum purging is accomplished by using PP or HDPE.

physical properties re-grind must be kept below 25%.

### Colouring

For special colour effects contact Distrupol Colour.

### Recycling / Re-grind

The quality of re-grind is essential to retain mechanical properties. All re-grind needs to be dried prior to re-processing & for optimum

### Storage & Handling

Available in 25 kg bags. If left exposed will require drying.

*Kevlar®, Zytel® & Minlon® are DuPont registered trademarks*

**Please refer to the individual processing guides and Material Safety Data Sheets for each grade prior to usage.**

**Recognised compounder for DuPont (UK) Ltd. Full colour-matching service available. Custom coloured compounds on quantities of 100kg upward.**

