



Zytel®

nylon resin

PRELIMINARY DATA

Zytel® FR15 NC010

Unreinforced Flame Retardant PA 66 Resin

Zytel® FR15 NC010 is a flame retardant PA 66 resin that meets the requirements of UL94V-0 at thicknesses down to 0.75mm (0.03in). Zytel® FR15 NC010 does not contain phosphorous or halogens.

Property	Test Method	Units	Value	
			DAM	50%RH
Mechanical				
Tensile Strength	ASTM D 638	MPa (kpsi)	85 (12.3)	60 (8.0)
Elongation at Break	ASTM D 638	%	10	70
Flexural Modulus	ASTM D 790	MPa (kpsi)	3450 (500)	1450 (210)
Izod Impact	ASTM D 256	J/m (ft lb/in)	32 (0.6)	127 (2.4)
Thermal				
Heat Deflection Temperature 1.8MPa (264psi)	ASTM D 648	°C (°F)	70 (158)	
Melting Point	ASTM D 3418	°C (°F)	263 (505)	
Electrical				
Dielectric Strength, Short Time 1.6mm (0.063in)	ASTM D 149	kV/mm (V/mil)	27.2 (690)	
Flammability				
Rating @ Thickness	UL94		V-0	
Thickness Tested	UL94	mm	0.75	
Other				
Specific Gravity	ASTM D 792		1.16	
Mold Shrinkage Flow, 3.2mm (0.126in)		%	0.9	
Processing				
Melt Temperature Range		°C (°F)	270-280 (520-535)	
Mold Temperature Range		°C (°F)	45-85 (105-185)	
Processing Moisture Content		%	<0.20	

Contact DuPont for Material Safety Data Sheet, general guides and/or additional information about ventilation, handling, purging, drying, etc.
Mechanical properties measured at 23°C (73°F) unless otherwise stated.

During molding, use proper protective equipment and adequate ventilation. Avoid exposure to fumes and the hold up time and temperature of the resin in the machine. Purge degraded resin carefully with HDPE

The above data are preliminary and are subject to change as additional data are developed on subsequent lots.

Zytel® is a DuPont registered trademark.

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