



TRIVALENCE

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TriLON™ 663AFR0 (U,L,HS,N)

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Polyamide Nylon 66

General Information

Product Description

Nylon 66 High Impact Unreinforced Flame Retardant

FEATURES

- High Impact
- Oil/Solvent Resistant
- Fast Cyling
- Excellent Chemical Resistance
- Gasoline Resistant
- Bromine and Chlorine Free

ADDITIONAL FORMULAS

- Added Lubricant "L"
- Additional UV "U"
- Additional Heat Stabilizers "HS"
- Nucleated "N"

COLOR

- All
- Translucent/Opaque

General

- Typical Applications** -Appliance, automotive, general, pumps, impellers, housings
- Processing Method** -Injection
- Form(s)** -Pellets
- Compliance** -RoHS Compliant - TVT
- Availability** -North America, Europe, Latin America

ASTM / ISO Properties¹

Physical	Nominal Value	Unit	Test Method
Density	1.26	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.2mm)	1.8-2.4	%	TVT Internal
Outdoor Suitability (QUV) ("U" Grades)	Pass		TVT Internal
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength, yld	6500	psi	ASTM D638
Tensile Strain	>10	%	ASTM D638
Flexural Modulus	300000	psi	ASTM D790
Notched Izod Impact	6	ft-lbs/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa)	375	°F	ASTM D648
Deflection Temperature Under Load (1.8 MPa)	160	°F	ASTM D648
Melting Point	504	°F	TVT Internal
Flammability	Nominal Value	Unit	Test Method
0.06 in	V0		UL94 - TVT Internal

Recommended Processing Guidance

- Drying Temperature 150 to 175 °F
- Drying Time - DESSICANT 3 to 6 Hours
- Suggested Max Moisture 0.2 %
- Processing Melt Temperature 530 to 570 °F
- Mold Temperature 140 to 200 °F

¹ Note: The values listed on this guide are typical values based on general molding conditions and used solely for the purpose of general material processing. It is recommended that application properties be derived from actual molded articles, whereas properties as molded could vary. These are not to be used as specifications. This data does not provide an implied conditional warranty.