

DuPont Zytel® EFE1068

Unreinforced Polyamide 66

While this product line has been acquired by Celanese, this specific grade had been discontinued while still a DuPont product so it is listed here as a discontinued DuPont product.

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	DAM; ISO 1183
Melt Density	0.950 g/cc @Temperature >=263 °C	0.0343 lb/in ³ @Temperature >=505 °F	
Water Absorption	8.5 % @Thickness 2.00 mm	8.5 % @Thickness 0.0787 in	DAM; Sim. to ISO 62
Moisture Absorption	2.80 % @Thickness 2.00 mm	2.80 % @Thickness 0.0787 in	DAM; Sim. to ISO 62
Linear Mold Shrinkage, Flow	0.015 cm/cm	0.015 in/in	DAM; ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.015 cm/cm	0.015 in/in	DAM; ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	59.0 MPa	8560 psi	50% RH; ISO 527-1/-2
	84.0 MPa	12200 psi	DAM; ISO 527-1/-2
Elongation at Break	20 %	20 %	Nominal; DAM; ISO 527-1/-2
	>= 50 %	>= 50 %	Nominal; 50% RH; ISO 527-1/-2
Elongation at Yield	4.5 %	4.5 %	DAM; ISO 527-1/-2
	25 %	25 %	50% RH; ISO 527-1/-2
Tensile Modulus	1.50 GPa	218 ksi	50% RH; ISO 527-1/-2
	3.00 GPa	435 ksi	DAM; ISO 527-1/-2
Poissons Ratio	0.37	0.37	DAM; ISO 527-1/-2
	0.43	0.43	50%RH; ISO 527-1/-2
Izod Impact, Notched (ISO)	5.00 kJ/m ² @Temperature 23.0 °C	2.38 ft-lb/in ² @Temperature 73.4 °F	DAM; ISO 180/1A
	10.0 kJ/m ² @Temperature 23.0 °C	4.76 ft-lb/in ² @Temperature 73.4 °F	50% RH; ISO 180/1A
Charpy Impact Unnotched	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	50% RH; ISO 179/1eU
	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	DAM; ISO 179/1eU
Charpy Impact, Notched	0.500 J/cm ² @Temperature 23.0 °C	2.38 ft-lb/in ² @Temperature 73.4 °F	DAM; ISO 179/1eA
	1.20 J/cm ² @Temperature 23.0 °C	5.71 ft-lb/in ² @Temperature 73.4 °F	50% RH; ISO 179/1eA