

DuPont Zytel® 7335F

Unreinforced, Nucleated Polyamide 6

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	1.13 g/cc	0.0408 lb/in ³	DAM; ISO 1183
Melt Density	0.970 g/cc @Temperature >=221 °C	0.0350 lb/in ³ @Temperature >=430 °F	
Water Absorption	9.0 % @Thickness 2.00 mm	9.0 % @Thickness 0.0787 in	DAM; Sim. to ISO 62
Moisture Absorption	3.00 % @Thickness 2.00 mm	3.00 % @Thickness 0.0787 in	DAM; Sim. to ISO 62
Viscosity Number	150 cm ³ /g	1.50 dl/g	DAM; ISO 307, 1157, 1628
Linear Mold Shrinkage, Flow	0.0060 cm/cm	0.0060 in/in	DAM; ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	DAM; ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	55.0 MPa	7980 psi	50% RH; ISO 527-1/-2
	92.0 MPa	13300 psi	DAM; ISO 527-1/-2
Film Elongation at Yield, MD	4.0 %	4.0 %	DAM; ISO 527-3
Elongation at Break	9.0 %	9.0 %	DAM; ISO 527-1/-2
	>= 50 %	>= 50 %	50% RH; ISO 527-1/-2
Elongation at Yield	3.8 %	3.8 %	DAM; ISO 527-1/-2
	24 %	24 %	50% RH; ISO 527-1/-2
Tensile Modulus	1.40 GPa	203 ksi	50% RH; ISO 527-1/-2
	3.60 GPa	522 ksi	DAM; ISO 527-1/-2
Poissons Ratio	0.36	0.36	DAM; ISO 527-1/-2
	0.43	0.43	50%RH; ISO 527-1/-2
Izod Impact, Unnotched (ISO)	2.00 kJ/m ² @Temperature -30.0 °C	0.952 ft-lb/in ² @Temperature -22.0 °F	DAM; ISO 180/1A
	2.00 kJ/m ² @Temperature -40.0 °C	0.952 ft-lb/in ² @Temperature -40.0 °F	DAM; ISO 180/1A
	3.50 kJ/m ² @Temperature 23.0 °C	1.67 ft-lb/in ² @Temperature 73.4 °F	DAM; ISO 180/1A
Charpy Impact Unnotched	6.00 J/cm ² @Temperature -30.0 °C	28.6 ft-lb/in ² @Temperature -22.0 °F	50% RH; ISO 179/1eU
	7.00 J/cm ² @Temperature 23.0 °C	33.3 ft-lb/in ² @Temperature 73.4 °F	DAM; ISO 179/1eU
	11.0 J/cm ² @Temperature -30.0 °C	52.3 ft-lb/in ² @Temperature -22.0 °F	DAM; ISO 179/1eU
	12.0 J/cm ² @Temperature 23.0 °C	57.1 ft-lb/in ² @Temperature 73.4 °F	50% RH; ISO 179/1eU
Charpy Impact, Notched	0.250 J/cm ² @Temperature -30.0 °C	1.19 ft-lb/in ² @Temperature -22.0 °F	DAM; ISO 179/1eA
	0.300 J/cm ² @Temperature -30.0 °C	1.43 ft-lb/in ² @Temperature -22.0 °F	50% RH; ISO 179/1eA
	0.450 J/cm ² @Temperature 23.0 °C	2.14 ft-lb/in ² @Temperature 73.4 °F	DAM; ISO 179/1eA
	1.80 J/cm ² @Temperature 23.0 °C	8.57 ft-lb/in ² @Temperature 73.4 °F	50% RH; ISO 179/1eA