PPA

Zytel® HTN 92G45V

DuPont (now Celanese)

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Resin Overview

PPA · 45% Glass, High Modulus. Sourced from public manufacturer technical data sheets.

This Grade

Manufacturer	DuPont (now Celanese)
Category	PPA · 45% Glass, High Modulus
Typical Use	High-modulus structural, metal replacement

Key Properties

Density	1.55 g/cm³
MVR (310°C/5 kg)	10 cm³/10min
Melting Point (DSC)	310 °C
Tensile Strength at Break	220 MPa
Tensile Modulus	16000 MPa
Elongation at Break	1.8%
HDT (1.8 MPa)	280 °C
CTI	350 V

Key Features

- 45% glass for highest stiffness
- High heat 170°C continuous
- High CTI (350V) for high-voltage
- DuPont/Celanese quality

Processing Conditions

Melt Temperature	320-340 °C
Mold Temperature	140-180 °C
Drying	4 h @ 120 °C in desiccant dryer
Processing Methods	Injection molding

Typical Applications

- Metal replacement structural
- High-temperature brackets
- EV power electronics
- High-voltage housings

Regulatory & Compliance

- RoHS compliant
- REACH registered

> ⚠ All data sourced from public manufacturer catalogs.

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