

Product Texts

Vydyne R533T is a translucent 33% glass-fiber reinforced PA66 resin designed specifically for use in power-steering reservoirs and other applications where chemical resistance, whiteness and transmittance are required. R533T offers standard flow and maintains the excellent resistance typical of PA66 in chemicals, machine and motor oils, solvents, and gasoline.

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
^[C] Molding shrinkage, parallel	0.4 / *	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	0.9 / *	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	10200 / 7900	MPa	ISO 527
^[C] Stress at break	210 / 150	MPa	ISO 527
^[C] Strain at break	4 / 6	%	ISO 527
^[C] Charpy impact strength, +23°C	N / 90	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	N / 85	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	12 / 14	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	8 / 12	kJ/m ²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	264 / *	°C	ISO 11357-1/-3
^[C] Temp. of deflection under load, 1.80 MPa	235 / *	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	252 / *	°C	ISO 75-1/-2
^[C] Coeff. of linear therm. expansion, parallel	21 / *	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	110 / *	E-6/K	ISO 11359-1/-2
^[C] Burning Behav. at 1.5 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	1.5 / *	mm	-
^[C] Burning Behav. at thickness h	HB / *	class	IEC 60695-11-10
Thickness tested	0.8 / *	mm	-

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Volume resistivity	1E12 / -	Ohm*m	IEC 62631-3-1
^[C] Electric strength	20 / -	kV/mm	IEC 60243-1
^[C] Comparative tracking index	600 / -	-	IEC 60112

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Water absorption	0.8 / *	%	Sim. to ISO 62
^[C] Humidity absorption	1.8 / *	%	Sim. to ISO 62
^[C] Density	1400 / -	kg/m ³	ISO 1183

[C]: CAMPUS

Characteristics

Processing

Injection Molding

Chemical Resistance

General Chemical Resistance, Solvent Resistance, Oil Resistance

Delivery form

Pellets, Natural Color

Applications

Automotive

Special Characteristics

Translucent

Regional Availability

North America, Europe, Asia Pacific