Vydyne® R535HR BK0790

PA66-GF35 Ascend

Product Texts

Vydyne R535HR BK0790 is a 35% glass filled, heat-stabilized PA66 based resin designed for injection molding applications. It was specifically developed to withstand long term exposure to coolants at temperatures up to 135 C. R535HR BK0790 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	**0.6 / ***	%	ISO 294-4, 2577
[C] Molding shrinkage, normal	**1.2 / ***	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
[C] Tensile Modulus	**11000 / 8900**	MPa	ISO 527
[C] Stress at break	**205 / 151**	MPa	ISO 527
[C] Strain at break	**3.9 / 5.2**	%	ISO 527
[C] Charpy impact strength, +23°C	**89 / 94**	kJ/m²	ISO 179/1eU
[C] Charpy impact strength, -30°C	**78 / 80**	kJ/m²	ISO 179/1eU
[C] Charpy notched impact strength, +23°C	**13 / 16**	kJ/m²	ISO 179/1eA
[C] Charpy notched impact strength, -30°C	**10 / 11**	kJ/m²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
[C] Melting temperature, 10°C/min	**260 / ***	°C	ISO 11357-1/-3
[C] Temp. of deflection under load, 1.80 MPa	**251 / ***	°C	ISO 75-1/-2
[C] Temp. of deflection under load, 0.45 MPa	**260 / ***	°C	ISO 75-1/-2

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
[C] Electric strength	**35 / -**	kV/mm	IEC 60243-1

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
[C] Water absorption	**1 / ***	%	Sim. to ISO 62
[C] Density	**1410 / -**	kg/m³	ISO 1183

[C]: CAMPUS

Characteristics

Processing
Injection Molding

Special Characteristics
Heat stabilized or stable to heat

Delivery form
Pellets, Black

Chemical Resistance
General Chemical Resistance, Solvent Resistance, Oil Resistance

Additives
Lubricants

Regional Availability
North America, Europe, Asia Pacific

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