Nypel® 6235G UN

PA6-GF35 BASF

Product Texts

Nypel 6235G UN is a 35% glass reinforced injection molding grade of PA6. Based on recycled polyamide feedstocks, Nypel 6235G UN offers a balance of mechanical properties with the ability to pigment with a full range of colorants.

Nypel 6235G UN is recommended for lawn and power equipment housings, structural furniture components such as seat frames, and automotive and industrial applications.

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
[C] Tensile Modulus	**10655 / 7205**	MPa	ISO 527
[C] Stress at break	**169 / 116**	MPa	ISO 527
[C] Strain at break	**3.6 / 7.6**	%	ISO 527
[C] Charpy impact strength, +23°C	**96 / 110**	kJ/m²	ISO 179/1eU
[C] Charpy impact strength, -30°C	**93 / 92**	kJ/m²	ISO 179/1eU
[C] Charpy notched impact strength, +23°C	**18 / 23**	kJ/m²	ISO 179/1eA
[C] Charpy notched impact strength, -30°C	**15 / 14**	kJ/m²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
[C] Temp. of deflection under load, 1.80 MPa	**207 / ***	°C	ISO 75-1/-2
[C] Temp. of deflection under load, 0.45 MPa	**217 / ***	°C	ISO 75-1/-2

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
[C] Density	**1360 / -**	kg/m³	ISO 1183

[C]: CAMPUS

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**80**	°C	-
Pre-drying - Time	**4**	h	-
Melt temperature	**270 - 290**	°C	-
Mold temperature	**80 - 90**	°C	-

Characteristics

Processing
Injection Molding

Applications
Automotive

Certifications
Recycled Resin Content

Regional Availability
North America

Other text information

Injection molding

PREPROCESSING
Pre/Post-processing, Pre-drying, Temperature: 80 °C
Pre/Post-processing, Pre-drying, Time: 4 h

PROCESSING
injection molding, Melt temperature, range: 270 - 290 °C
injection molding, Melt temperature, recommended: 280 °C
injection molding, Mold temperature, range: 80 - 90 °C
injection molding, Mold temperature, recommended: 80 °C