Nypol® B3 G35 HS UV RH PRTA011 NT391

PA6-GF35 — Grupo Petropol Polímeros

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	**0.3 / ***	%	ISO 294-4, 2577
Molding shrinkage, normal	**0.9 / ***	%	ISO 294-4, 2577

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	**11500 / 7200**	MPa	ISO 527
Stress at break	**195 / 130**	MPa	ISO 527
Strain at break	**3.5 / 7**	%	ISO 527
Flexural modulus, 23°C	**10000 / 6600**	MPa	ISO 178
Flexural strength	**255 / -**	MPa	ISO 178
Charpy impact strength, +23°C	**100 / 110**	kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	**90 / -**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**18 / 33**	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	**13 / -**	kJ/m²	ISO 179/1eA
Izod notched impact strength, +23°C	**15 / 28**	kJ/m²	ISO 180/1A

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	**220 / ***	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	**215 / ***	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**220 / ***	°C	ISO 75-1/-2

Other properties	dry / cond	Unit	Test Standard
Density	**1400 / -**	kg/m³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**90**	°C	-
Pre-drying - Time	**2 - 4**	h	-
Melt temperature	**260 - 295**	°C	-
Mold temperature	**80 - 90**	°C	-

Characteristics

Processing
Injection Molding

Delivery form
Black

Special Characteristics
U.V. stabilized or stable to weather, Heat stabilized or stable to heat

Chemical Resistance
Hydrolytically Stable

Regional Availability
North America, Europe, South and Central America