AD majoris DG 300

Polypropylene

AD majoris

IDES | Prospector

Product Description

DG 300 is a 30% chemically coupled glass fibre reinforced polypropylene compound (with Yellow card) intended for injection moulding.

The product is available in natural, but other colours can be provided on request.

DG 300 has been developed especially for demanding applications in various engineering sectors.

DG 300 has high rigidity and impact strength, good dimensional stability and good creep resistancy also at high temperatures.

APPLICATIONS
Product requiring very high overall mechanical performance such as:

- Sockets and junction boxes for electrical industry
- Electrical tool and appliance components
- Lamp housing
- Miscellaneous technically items

Can suitably be made from DG 300.

General

Material Status	• Commercial: Active		
Availability	• Europe		
Filler / Reinforcement	• Glass Fiber Reinforcement, 30% Filler by Weight		
Features	• Chemically Coupled • Good Creep Resistance	• Good Dimensional Stability • High Impact Resistance	• High Rigidity
Uses	• Electrical/Electronic Applications • Engineered Applications	• Housings • Power/Other Tools	
RoHS Compliance	• RoHS Compliant		
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical	Nominal Value	Unit	Test Method
Density	1.12	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	6.0	g/10 min	ISO 1133
Molding Shrinkage (2.00 mm)	0.60 to 0.80	%	ISO 294-4
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress			ISO 527-2/50
Yield, 23°C, Injection Molded	85.0	MPa	
Tensile Strain			ISO 527-2/50
Yield, 23°C, Injection Molded	2.2	%	
Flexural Modulus [2] (23°C, Injection Molded)	5600	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-20°C, Injection Molded	9.0	kJ/m²	
23°C, Injection Molded	12	kJ/m²	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Ball Indentation Hardness (H 358/30)	120	MPa	ISO 2039-1
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, Unannealed	159	°C	ISO 75-2/B
1.8 MPa, Unannealed	145	°C	ISO 75-2/A
Vicat Softening Temperature	164	°C	ISO 306/A50
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating - UL	HB		UL 94
Glow Wire Flammability Index (2.00 mm)	750	°C	IEC 60695-2-12

Injection	Nominal Value	Unit
Processing (Melt) Temp	230 to 270	°C

Copyright © 2012 - IDES Inc. | 800-788-4668 or 307-742-9227 | www.ides.com.

The information presented on this datasheet was acquired by IDES from the producer of the material. IDES makes substantial efforts to assure the accuracy of this data. However, IDES assumes no responsibility for the data values and strongly encourages that upon final material selection, data points are validated with the material supplier.

Revision History
Document Created: Tuesday, May 08, 2012
Added to Prospector: October, 2004
Last Updated: 5/30/2008

AD majoris DG 300
Polypropylene
AD majoris

Injection	Nominal Value	Unit
Mold Temperature	30.0 to 50.0	°C
Injection Rate	Moderate	

Injection Notes
Hold-on Pressure: 50 to 70% of the injection pressure.

Notes

[1] Typical properties: these are not to be construed as specifications.

[2] 2.0 mm/min

Copyright © 2012 - IDES Inc. | 800-788-4668 or 307-742-9227 | www.ides.com.

The information presented on this datasheet was acquired by IDES from the producer of the material. IDES makes substantial efforts to assure the accuracy of this data. However, IDES assumes no responsibility for the data values and strongly encourages that upon final material selection, data points are validated with the material supplier.

Revision History
Document Created: Tuesday, May 08, 2012
Added to Prospector: October, 2004
Last Updated: 5/30/2008