

DAUNYL B R300

Polyamide 6

Daunia Trading srl

Message:

DAUNYL B R300 is a polyamide 6 reinforced with 30% glass fibre for injection moulding. It presents high mechanical properties and outstanding dimensional stability. The standard colours are natural and black.

General Information				
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Features		Good Dimensional Stability		
Appearance		Black		
		Natural Color		
Forms		Pellets		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.34	--	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage				
Flow	0.25 to 0.35	--	%	ASTM D955
--	0.25 to 0.35	--	%	ISO 294-4
Water Absorption (23°C, 24 hr)	0.85 to 0.95	--	%	ASTM D570
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (R-Scale)	121	114		ASTM D785
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	9000	5600	MPa	ASTM D638, ISO 527-2
Tensile Strength (Yield)	170	100	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break)	3.5	4.0	%	ASTM D638, ISO 527-2
Flexural Strength	270	140	MPa	ASTM D790, ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact	110	170	J/m	ASTM D256
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				
0.45 MPa, Unannealed	215	--	°C	ASTM D648, ISO 75-2/B
1.8 MPa, Unannealed	205	--	°C	ASTM D648, ISO 75-2/A
Vicat Softening Temperature	> 200	--	°C	ASTM D1525, ISO 306
Melting Temperature	217 to 223	--	°C	
CLTE - Flow	3.0E-5	--	cm/cm/°C	ASTM D696
Service Temperature				

Continuous	80 to 100	--	°C	
Short Term	150	--	°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+13	1.0E+11	ohms	ASTM D257, IEC 60093
Volume Resistivity	1.0E+15	1.0E+12	ohms·cm	ASTM D257, IEC 60093
Dielectric Strength	60	40	kV/mm	ASTM D149, IEC 60243-1
Comparative Tracking Index	500	--	V	DIN 53480
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating	HB	--		UL 94
Injection	Dry	Unit		
Processing (Melt) Temp	240 to 270		°C	
Mold Temperature	80.0 to 100		°C	

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