NYCOA Polyamide GR30 V0 Black

Polyamide 6

Nycoa (Nylon Corporation of America)

Message:

NYCOA GR30 V0 is a 30% glass fiber reinforced, flame retardant Nylon 6 resin used for injection molding. This resin complies with ROHS requirements, as it contains a non-halogenated flame retardant package.

NYCOA GR30 V0 is listed by Underwriters Laboratories as UL 94 V0 at 1.4mm thickness.

Typical applications include speaker baskets, relay housings, bobbins, and electrical connectors.

General Information				
UL YellowCard	E86478-513024			
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight			
Features	Halogen-free			
	Flame retardancy			
Uses	Electrical/Electronic Applications			
	Electrical components			
	Connector			
	Shell			
RoHS Compliance	RoHS compliance			
	Black			
Appearance				
Forms	Particle			
Processing Method	Injection molding			
Physical	Nominal Value	Unit	Test Method	
Specific Gravity	1.42	g/cm³	ASTM D792	
Molding Shrinkage			ASTM D955	
Flow	0.30	%	ASTM D955	
Transverse flow	0.50	%	ASTM D955	
Water Absorption (24 hr)	0.95	%	ASTM D570	
Hardness	Nominal Value	Unit	Test Method	
Rockwell Hardness (R-Scale)	120		ASTM D785	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Strength ¹	146	MPa	ASTM D638	
Tensile Elongation ² (Break)	3.0	%	ASTM D638	
Flexural Modulus ³	9150	MPa	ASTM D790	
Flexural Strength ⁴	206	MPa	ASTM D790	
Impact	Nominal Value	Unit	Test Method	
Notched Izod Impact (6.35 mm)	110	J/m	ASTM D256	
Unnotched Izod Impact (6.35 mm)	910	J/m	ASTM D256	
			Test Method	

Deflection Temperature Under Load			ASTM D648	
0.45 MPa, not annealed	220	°C	ASTM D648	
1.8 MPa, not annealed	205	°C	ASTM D648	
Melting Temperature	221	°C	DSC	
Flammability	Nominal Value		Test Method	
Flame Rating (1.40 mm)	V-0		UL 94	
Additional Information				
The value listed as Melting Point DSC, was tested in accordance with ASTM D789.				
Injection	Nominal Value	Unit		
Drying Temperature	71.1 - 82.2	°C		
Drying Time	4.0 - 6.0	hr		
Rear Temperature	232 - 271	°C		
Middle Temperature	243 - 282	°C		
Front Temperature	254 - 291	°C		
Nozzle Temperature	252 - 291	°C		
Processing (Melt) Temp	254 - 291	°C		
Mold Temperature	76.7 - 87.8	°C		
Injection Rate	Fast			
Back Pressure	0.138 - 0.517	MPa		
Cushion	1.59 - 6.35	mm		
Screw L/D Ratio	16.0:1.0			
Screw Compression Ratio	3.0:1.0			
NOTE				
1.	50 mm/min			
2.	50 mm/min			
3.	50 mm/min			
4.	50 mm/min			

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