

NYCOA Polyamide 2277 G30I

Polyamide Copolymer

Nycoa (Nylon Corporation of America)

Message:

NYCOA 2277 G30I is a 30% glass fiber reinforced, impact modified, Nylon Copolymer resin used for injection molding. This grade features excellent strength and stiffness, dimensional stability, and a lower melting point vs. Nylon 6.
NYCOA 2277 G30I is also available in UV stable grades, as well as custom colors.
Typical applications include sporting goods, power tool housing, and lawn & garden equipment parts.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Additive	Impact modifier		
Features	Good dimensional stability		
	Impact modification		
	Rigidity, high		
	High strength		
	Copolymer		
Uses	Electric Motor Housings		
	Lawn and Garden Equipment		
	Sporting goods		
Appearance	Available colors		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.35	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	0.30	%	ASTM D955
Transverse flow	0.50	%	ASTM D955
Water Absorption (24 hr)	1.0	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹	116	MPa	ASTM D638
Tensile Elongation ² (Break)	12	%	ASTM D638
Flexural Modulus ³	6210	MPa	ASTM D790
Flexural Strength ⁴	145	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°C, 6.35 mm	130	J/m	ASTM D256

23°C, 6.35 mm	270	J/m	ASTM D256
Unnotched Izod Impact			ASTM D256
-40°C, 6.35 mm	1300	J/m	ASTM D256
23°C, 6.35 mm	1300	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	187	°C	DSC

Additional Information

The value listed as Melting Point DSC, was tested in accordance with ASTM D789.

NOTE

1. 50 mm/min
2. 50 mm/min
3. 50 mm/min
4. 51 mm/min

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