

NYCOA Polyamide 6115 HS

Polyamide 612

Nycoa (Nylon Corporation of America)

Message:

NYCOA 6120 is a 15% glass fiber reinforced, impact modified, Nylon 6/12 that offers an excellent balance of mechanical properties. This grade features a higher degree of impact strength vs. traditional glass-filled Nylons.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 15% filler by weight		
Additive	Impact modifier		
Features	Impact modification		
	Impact resistance, high		
Forms	Particle		
Hardness	Nominal Value	Test Method	
Rockwell Hardness (R-Scale)	122	ASTM D785	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹	104	MPa	ASTM D638
Tensile Elongation ² (Break)	13	%	ASTM D638
Flexural Modulus ³	4000	MPa	ASTM D790
Flexural Strength ⁴	130	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (6.35 mm)	310	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	217	°C	DSC
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	227 - 238	°C	
Middle Temperature	238 - 249	°C	
Front Temperature	243 - 260	°C	
Nozzle Temperature	243 - 260	°C	
Processing (Melt) Temp	243 - 260	°C	
Mold Temperature	65.6 - 76.7	°C	
Injection Rate	Fast		
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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