

ColorFast® NY5

Americhem - Polyamide 12

General Information

Product Description

Transparent nylon 12

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Excellent Colorability		
Uses	• Closures • Consumer Applications • Engineering Parts	• Household Goods • Housings • Industrial Applications	• Industrial Parts • Outdoor Applications
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.00	g/cm ³	ISO 1183
Molding Shrinkage	0.80	%	ISO 294-4
Water Absorption (Equilibrium, 73°F, 50% RH)	0.70	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	203000	psi	ISO 527-1
Tensile Stress (Yield)	6530	psi	ISO 527-2
Tensile Stress (Break)	7250	psi	ISO 527-2
Tensile Strain (Yield)	5.0	%	ISO 527-2
Nominal Tensile Strain at Break	> 50	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-22°F	3.3	ft·lb/in ²	
73°F	2.9	ft·lb/in ²	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	70		ISO 868
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	122	°F	ISO 75-2/A
Melting Temperature	352	°F	ISO 11357-3

Notes

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

