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ColorFast® NY5

Product Description Transparent nylon 12

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

Physical	Nominal Value	Unit	Test Method
Density	1.00	g/cm³	ISO 1183
Molding Shrinkage	0.80	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	0.70	%	ISO 62

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1400	MPa	ISO 527-1
Tensile Stress			ISO 527-2
Yield	45.0	MPa	
Break	50.0	MPa	
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
-30°C	6.9	kJ/m²	
23°C	6.1	kJ/m²	

Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	70		ISO 868

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ISO 75-2/A
1.8 MPa, Unannealed	50.0	°C	
Melting Temperature	178	°C	ISO 11357-3

Notes

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

Properties provided are only typical values and Americhem assumes no liability for the customer's use of the information provided. The customer assumes all responsibility for testing determining this products suitability in the customer's specific end application.

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Americhem World Headquarters
2000 Americhem Way
Cuyahoga Falls, OH 44221
Tel: +1 330 929 4213
Toll Free: +1 800 228 3476

Americhem Engineered Compounds
20 Progress Drive
Morrisvillle, PA 19067
Tel: +1 215 736 1126
Toll Free: +1 800 863 4260