

Integra™ PA12

Polyamide 12
PolySource, LLC

Message:
Polyamide 12, FDA Food Contact, NSF-61, USP VI rated

General Information				
Features		Compliance of Food Exposure		
Agency Ratings		FDA Food Exposure, Not Rated		
		NSF 61		
		USP Class VI		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.00	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Transverse flow	0.80	--	%	ISO 294-4
Flow	0.70	--	%	ISO 294-4
Water Absorption				ISO 62
Saturated, 23°C	3.0	--	%	ISO 62
Equilibrium, 23°C, 50% RH	1.5	--	%	ISO 62
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	--	90.3	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	1600	--	MPa	ISO 527-2
Tensile Stress (Yield)	60.0	--	MPa	ISO 527-2
Tensile Strain (Yield)	6.0	--	%	ISO 527-2
Nominal Tensile Strain at Break	> 50	--	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	9.0	12	kJ/m ²	ISO 179/1eA
23°C	9.0	13	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	No Break	--		ISO 179/1eU
23°C	No Break	--		ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, not annealed	135	--	°C	ISO 75-2/B

1.8 MPa, not annealed	115	--	°C	ISO 75-2/A
Continuous Use Temperature	80.0 - 100	--	°C	ISO 2578
Glass Transition Temperature	155	--	°C	ISO 11357-2
Linear thermal expansion coefficient				ISO 11359-2
Flow	9.0E-5	--	cm/cm/°C	ISO 11359-2
Lateral	9.0E-5	--	cm/cm/°C	ISO 11359-2
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+12	--	ohms	IEC 60093
Volume Resistivity	1.0E+13	--	ohms·cm	IEC 60093
Dielectric Strength	34	--	kV/mm	IEC 60243-1
Comparative Tracking Index	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (1.6 mm)	HB	--		UL 94

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