



Duramid TH7G12.2S*9207

Teknor Apex Company (Chem Polymer) - Polyamide 66 + PA 6I/6T

General Information

General			
Material Status	• Preliminary Data		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Forms	• Pellets		

ASTM & ISO Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density	1.72	1.72	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.40	0.40	%	
Flow	0.20	0.20	%	
Water Absorption (24 hr, 73°F)	0.30	0.30	%	ISO 62
Water Absorption Saturation, 73°F	2.0	2.0	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3.63E+6	3.19E+6	psi	ISO 527-2
Tensile Stress (Break)	37700	34800	psi	ISO 527-1
Tensile Strain (Break)	2.5	3.0	%	ISO 527-2
Flexural Modulus (73°F)	2.68E+6	2.39E+6	psi	ISO 178
Flexural Stress	50800	45000	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179
-22°F	9.5	--	ft·lb/in ²	
73°F	9.5	9.5	ft·lb/in ²	
Charpy Unnotched Impact Strength				ISO 179
-22°F	31	--	ft·lb/in ²	
73°F	31	33	ft·lb/in ²	
Notched Izod Impact Strength				ISO 180
73°F	9.5	9.5	ft·lb/in ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				ISO 75-2/B
66 psi, Unannealed	491	491	°F	
Heat Deflection Temperature				ISO 75-2/A
264 psi, Unannealed	473	473	°F	
Vicat Softening Temperature				
--	482	482	°F	ISO 306/A
--	446	446	°F	ISO 306/B
Melting Temperature	509	509	°F	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Electric Strength (0.0787 in)	990	--	V/mil	IEC 60243-1

Processing Information

Injection	Dry	Unit
Drying Temperature	176	°F
Drying Time	2.0 to 4.0	hr
Nozzle Temperature	554	°F

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Injection	Dry Unit
Mold Temperature	176 to 248 °F

Notes

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