

NOVADYN™ DT

High Performance Polyamide

INVISTA Engineering Polymers

Message:

INVISTA's Novadyn™ DT is made from DYTEK® A diamine and purified terephthalic acid (PTA).

General Information				
Appearance	Clear/Transparent			
Forms	Pellets			
Processing Method	Injection Molding			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.18	1.19	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)	78	--	g/10 min	ISO 1133
Water Absorption (23°C, 24 hr)	1.1	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	2850	3210	MPa	ISO 527-2/1
Tensile Stress (23°C)	97.0	95.0	MPa	ISO 527-2/50
Tensile Strain				ISO 527-2/50
Yield, 23°C	7.2	6.3	%	
Break, 23°C	34	6.3	%	
Flexural Modulus ¹ (23°C)	2900	2900	MPa	ISO 178
Flexural Stress ² (23°C)	92.0	129	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	11	4.8	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	25	58	kJ/m ²	ISO 179
Notched Izod Impact Strength (23°C)	7.8	3.9	kJ/m ²	ISO 180
Unnotched Izod Impact Strength (23°C)	24	38	kJ/m ²	ISO 180
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	132	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	117	--	°C	ISO 75-2/A
Glass Transition Temperature ³	147	--	°C	DSC
Melting Temperature ⁴	295	--	°C	DSC
Additional Information	Dry	Conditioned	Unit	Test Method
Moisture Absorption - After conditioning ⁵	--	3.9	%	ISO 1110

Injection	Dry	Unit
Rear Temperature	275	°C
Middle Temperature	290	°C
Front Temperature	300	°C
Nozzle Temperature	310	°C
Mold Temperature	85.0	°C
Back Pressure	0.500	MPa
Screw Speed	125	rpm

NOTE		
1.	2.0 mm/min	
2.	2.0 mm/min	
3.	20°C/min	
4.	20°C/min	
5.	Conditioned at 70°C, 62% RH	

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