

DOMAMID® 6STZX

Polyamide 6

DOMO Engineering Plastics SPA

Message:

Polyamide 6, high impact resistance also at low temperatures, for injection moulding.

General Information				
Features		High Impact Resistance		
		Low Temperature Impact Resistance		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.06	--	g/cm ³	ISO 1183
Molding Shrinkage ¹				ISO 2577
Across Flow : 23°C, 72 hr	1.7 to 1.9	--	%	
Flow : 23°C, 72 hr	1.3 to 1.5	--	%	
Water Absorption				ISO 62
Saturation, 23°C	7.6	--	%	
Equilibrium, 23°C, 50% RH	2.1	--	%	
Viscosity Number	145	--	cm ³ /g	ISO 307
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (R-Scale)	100	--		ISO 2039-2
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	1850	800	MPa	ISO 527-2/1
Tensile Stress (Yield)	45.0	30.0	MPa	ISO 527-2/50
Tensile Strain (Break)	> 50	> 50	%	ISO 527-2/50
Flexural Modulus ²	1600	700	MPa	ISO 178
Flexural Stress ³	65.0	30.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	24	--	kJ/m ²	
23°C	70	120	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	No Break	No Break		
23°C	No Break	No Break		
Notched Izod Impact Strength				ISO 180/1A
-30°C	22	--	kJ/m ²	

23°C	70	120	kJ/m ²	
Unnotched Izod Impact Strength (23°C)	No Break	No Break		ISO 180/1U
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	135	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	50.0	--	°C	ISO 75-2/A
Vicat Softening Temperature	170	--	°C	ISO 306/B50
Melting Temperature	222	--	°C	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+13	--	ohms	IEC 60093
Volume Resistivity	1.0E+15	--	ohms·cm	IEC 60093
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate	< 100	--	mm/min	FMVSS 302
Flame Rating (0.800 mm)	HB	--		UL 94
Injection	Dry	Unit		
Drying Temperature	75.0 to 85.0		°C	
Drying Time	2.0 to 4.0		hr	
Processing (Melt) Temp	240 to 260		°C	
Mold Temperature	60.0 to 90.0		°C	
NOTE				
1.	50% RH			
2.	2.0 mm/min			
3.	2.0 mm/min			

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