DOMAMID® 6STC4

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/cm³	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	2.3	--	%	
Viscosity Number	145	--	cm³/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/m²	
23°C	70	120	kJ/m²	
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/m²	

23°C	70	120	kJ/m²	
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			

Recommended distributors for this material

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