

TECHNYL® PSB 286 NATURAL

Polyamide 6
Solvay Engineering Plastics

Message:
Unreinforced polyamide PA6, with very good lubrication, standard for fast injection cycles, for injection moulding.

General Information				
Additive		Lubricant		
Features		Fast Molding Cycle		
		Good Mold Release		
		Lubricated		
Appearance		Natural Color		
Processing Method		Injection Molding		
Part Marking Code (ISO 11469)		>PA6<		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.14	--	g/cm ³	ISO 1183/A
Molding Shrinkage				Internal Method
Across Flow	1.6	--	%	
Flow	1.2	--	%	
Water Absorption (23°C, 24 hr)	1.3	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3000	1300	MPa	ISO 527-2/1A
Tensile Stress (Break)	80.0	41.0	MPa	ISO 527-2/1A
Tensile Strain				ISO 527-2/1A
Yield	85	45	%	
Break	65	82	%	
Flexural Modulus	2800	1000	MPa	ISO 178
Flexural Stress	115	40.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	5.5	81	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	No Break	No Break		ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	80.0	--	°C	ISO 75-2/Af
Melting Temperature	222	--	°C	ISO 11357-3
CLTE - Transverse (23 to 85°C)	7.0E-5	--	cm/cm/°C	ISO 11359-2

Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+13	1.0E+11	ohms	IEC 60093
Volume Resistivity	1.0E+15	1.0E+11	ohms·cm	IEC 60093
Electric Strength	--	18	kV/mm	IEC 60243-1
Relative Permittivity	3.40	3.90		IEC 60250
Dissipation Factor	0.020	0.10		IEC 60250
Comparative Tracking Index (Solution A)	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
0.800 mm	V-2	--		
1.60 mm	V-2	--		
3.20 mm	V-2	--		
Glow Wire Flammability Index				IEC 60695-2-12
0.800 mm	700	--	°C	
1.60 mm	700	--	°C	
3.20 mm	750	--	°C	
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Suggested Max Moisture	0.20		%	
Rear Temperature	225 to 230		°C	
Middle Temperature	230 to 235		°C	
Front Temperature	230 to 240		°C	
Mold Temperature	20.0 to 50.0		°C	

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