

TECHNYL® 1021ST BRIGHT

Polyamide 6
Solvay Engineering Plastics

Message:
Polyamide 6, unfilled, super tough impact modified, for injection moulding

General Information				
Additive		Impact Modifier		
Features		Impact Modified		
		Ultra High Toughness		
Uses		Automotive Applications		
		Sporting Goods		
Appearance		Colors Available		
		Natural Color		
Processing Method		Injection Molding		
Part Marking Code (ISO 11469)		>PA6<		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.06	--	g/cm ³	ISO 1183
Water Absorption (Equilibrium, 23°C, 50% RH)	1.2	--	%	ISO 62
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (R-Scale)	110	--		ASTM D785
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Strength (Yield)	50.0	--	MPa	ASTM D638
Tensile Elongation (Break)	200	--	%	ASTM D638
Flexural Modulus	1900	--	MPa	ASTM D790
Flexural Strength (Break)	65.0	--	MPa	ASTM D790
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact	1100	--	J/m	ASTM D256
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ASTM D648
0.45 MPa, Unannealed	120	--	°C	
1.8 MPa, Unannealed	50.0	--	°C	
Melting Temperature	222	--	°C	ISO 11357-3
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	3.50	4.00		IEC 60250
Dissipation Factor	0.020	0.12		IEC 60250
Comparative Tracking Index (Solution A)	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating	HB	--		UL 94
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Suggested Max Moisture	0.20		%	
Rear Temperature	235 to 240		°C	
Middle Temperature	245 to 250		°C	
Front Temperature	250 to 260		°C	
Mold Temperature	60.0 to 80.0		°C	

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