

TECHNYL® 1011R BRIGHT

Polyamide 6
Solvay Engineering Plastics

Message:
Polyamide 6, Unfilled, lubricated, for injection molding

General Information				
Additive		Lubricant		
Features		Good Flow		
		Lubricated		
Uses		Fasteners		
		Gears		
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
Molding Shrinkage				Internal Method
Across Flow	1.2 to 1.5	--	%	
Flow	1.1 to 1.5	--	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	1.3	--	%	ISO 62
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (R-Scale)	115	--		ASTM D785
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Strength (Yield)	80.0	--	MPa	ASTM D638
Tensile Elongation (Break)	45	--	%	ASTM D638
Flexural Modulus	2950	--	MPa	ASTM D790
Flexural Strength (Break)	115	--	MPa	ASTM D790
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact	85	--	J/m	ASTM D256
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ASTM D648
0.45 MPa, Unannealed	60.0	--	°C	
1.8 MPa, Unannealed	180	--	°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	3.4	3.9	kV/mm	IEC 60243-1
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	HB	--		UL 94
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Suggested Max Moisture	0.20		%	
Rear Temperature	230 to 235		°C	
Middle Temperature	235 to 245		°C	
Front Temperature	245 to 250		°C	
Mold Temperature	60.0 to 80.0		°C	

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