

Zytel® FG70G30HSR2 BK309

NYLON RESIN

DuPont Performance Polymers

Message:

Zytel® FG70G30HSR2 BK309 is a NYLON RESIN product. It can be processed by injection molding and is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America.

Characteristics include:

Heat Stabilizer

Mold Release Agent

General Information				
Additive		Heat Stabilizer		
		Mold Release		
Features		Heat Stabilized		
Forms		Pellets		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.37	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.0	--	%	
Flow	0.20	--	%	
Viscosity Number	145	--	cm ³ /g	ISO 307
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	10000	7200	MPa	ISO 527-2
Tensile Stress (Break)	200	130	MPa	ISO 527-2
Tensile Strain (Break)	3.3	5.0	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	12	15	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	75	90	kJ/m ²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	260	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	250	--	°C	ISO 75-2/A
Glass Transition Temperature ¹	80.0	--	°C	ISO 11357-2
Vicat Softening Temperature	209	--	°C	ISO 306/B50
Melting Temperature ²	263	--	°C	ISO 11357-3
CLTE				ISO 11359-2

Flow	2.8E-5	--	cm/cm/°C	
Transverse	9.5E-5	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+13	ohms	IEC 60093
Flammability	Dry	Conditioned	Unit	Test Method
Oxygen Index	19	--	%	ISO 4589-2
Fill Analysis	Dry	Conditioned	Unit	
Melt Density	1.20	--	g/cm ³	
Specific Heat Capacity of Melt	2220	--	J/kg/°C	
Thermal Conductivity of Melt	0.22	--	W/m/K	
Effective Thermal Diffusivity	0.0685	--	cSt	
NOTE				
1.	10°C/min			
2.	10°C/min			

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