

Ultraform® S 2320 FC Aqua UN

Acetal (POM) Copolymer

BASF Corporation

Message:

ULTRAFORM® S2320 FC AQUA UN is applicable for plastic parts, where the approvals of material for drinking water contact and direct food contact is a mandatory requirement.

General Information			
Features	Copolymer		
	Compliance of Food Exposure		
Agency Ratings	ACS not rated		
	DVGW W270		
	EC 1907/2006 (REACH)		
	EC 2023/2006		
	FDA 21 CFR 177.2470		
	KTW not rated		
	NSF 61		
	WRAS not rated		
	Europe 10/1/2011 12:00:00 AM		
RoHS Compliance	RoHS compliance		
Forms	Particles		
Processing Method	Injection molding		
Resin ID (ISO 1043)	POM		
Physical	Nominal Value	Unit	Test Method
Density	1.40	g/cm³	ISO 1183
Apparent Density	0.85	g/cm³	
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	11.0	cm³/10min	ISO 1133
Molding Shrinkage			ISO 294-4
Vertical flow direction	2.1	%	ISO 294-4
Flow direction	2.1	%	ISO 294-4
Water Absorption			ISO 62
Saturated, 23°C	0.80	%	ISO 62
Equilibrium, 23°C, 50% RH	0.20	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	145	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2700	MPa	ISO 527-2
Tensile Stress (Yield)	65.0	MPa	ISO 527-2/50

Tensile Strain (Yield)	9.0	%	ISO 527-2/50
Nominal Tensile Strain at Break	28	%	ISO 527-2/50
Tensile Creep Modulus ¹ (1000 hr)	1300	MPa	ISO 899-1
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	5.0	kJ/m ²	ISO 179/1eA
23°C	5.5	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	170	kJ/m ²	ISO 179/1eU
23°C	180	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	100	°C	ISO 75-2/A
Melting Temperature	167	°C	ISO 11357-3
CLTE - Flow (23 to 55°C)	1.1E-4	cm/cm/°C	ISO 11359-2
Maximum operating temperature-short cycle operation	100	°C	
Automotive Materials (> 1.00 mm)	Passed		FMVSS 302
ISO Type	POM-K, M-GNR, 04-002		ISO 9988-1
Screw Speed	300	mm/sec	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+13	ohms	IEC 60093
Volume Resistivity	1.0E+15	ohms · cm	IEC 60093
Relative Permittivity (1 MHz)	3.80		IEC 60250
Dissipation Factor (1 MHz)	5.0E-3		IEC 60250
Comparative Tracking Index (Solution A)	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	100	°C	
Drying Time	3.0	hr	
Suggested Max Moisture	0.20	%	
Hopper Temperature	200	°C	
Rear Temperature	200	°C	
Middle Temperature	200	°C	
Front Temperature	200	°C	
Nozzle Temperature	200	°C	
Processing (Melt) Temp	190 - 230	°C	
Mold Temperature	60.0 - 120	°C	
Injection instructions			
Residence Time : <10 min			
NOTE			
1.	strain <= 0,5%, 23°C		

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519
Phone: +86 13424755533
Email: sales@su-jiao.com
No. 215, Lianhe North Road, Fengxian District, Shanghai, China

