

Ultramid® S3K Balance

Polyamide 610

BASF Corporation

Message:

Easy flowing, stabilized product for fast processing.

General Information				
Additive	Unspecified Stabilizer			
Features	Fast Molding Cycle Good Flow			
Agency Ratings	EC 1907/2006 (REACH)			
RoHS Compliance	RoHS Compliant			
Forms	Pellets			
Processing Method	Injection Molding			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.08	--	g/cm ³	ISO 1183
Apparent Density	0.70	--	g/cm ³	
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	120	--	cm ³ /10min	ISO 1133
Molding Shrinkage				ISO 294-4
Across Flow	1.9	--	%	
Flow	1.6	--	%	
Water Absorption				ISO 62
Saturation, 23°C	3.6	--	%	
Equilibrium, 23°C, 50% RH	1.4	--	%	
Viscosity Number (96% H ₂ SO ₄ (Sulphuric Acid))	150	--	cm ³ /g	ISO 307
Mold Shrinkage - constrained ¹	1.1 to 1.2	--	%	
Polymer Abbreviation	PA610	--		
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2400	1100	MPa	ISO 527-2
Tensile Stress (Yield)	65.0	50.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	4.5	20	%	ISO 527-2/50
Flexural Modulus	2100	1000	MPa	ISO 178
Flexural Stress	85.0	40.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	3.0	--	kJ/m ²	

23°C	5.0	10	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU	
-30°C	300	--	kJ/m ²	
23°C	No Break	No Break		
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	140	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	65.0	--	°C	ISO 75-2/A
Melting Temperature	220	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow : 23 to 80°C	9.0E-5 to 1.3E-4	--	cm/cm/°C	
Transverse : 23 to 80°C	1.0E-4 to 1.4E-4	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	> 1.0E+16	ohms	IEC 60093
Electric Strength ²	--	44	kV/mm	IEC 60243-1
Comparative Tracking Index (Solution A)	600	--	V	IEC 60112
Injection	Dry	Unit		
Processing (Melt) Temp	250 to 270		°C	
Mold Temperature	40.0 to 60.0		°C	
NOTE				

1. Test box with central gating, dimensions of base (107*47*1,5) mm, processing condition: TM = 260°C, TW = 80°C
2. 60*60*1 mm³

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

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

