

Ultramid® A3W R01 SW805

Polyamide 66

BASF Corporation

Message:

Injection moulding grade, easy flowing, heat stabilized, technical parts with higher permanent use temperature

General Information			
Additive	Heat Stabilizer		
Features	Good Flow		
	Heat Stabilized		
	Oil Resistant		
Uses	Engineering Parts		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.14	g/cm ³	ISO 1183
Apparent Density	0.70	g/cm ³	
Viscosity Number (96% H ₂ SO ₄ (Sulphuric Acid))	140	cm ³ /g	ISO 307
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3400	MPa	ISO 527-2
Tensile Stress (Yield)	85.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	4.0	%	ISO 527-2/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	260	°C	ISO 11357-3
Additional Information	Nominal Value		Test Method
Automotive Materials (> 1.00 mm)	Passed		FMVSS 302
Polymer Abbreviation	PA66		
Injection	Nominal Value	Unit	
Processing (Melt) Temp	280 to 300	°C	
Mold Temperature	70.0 to 80.0	°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



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