

Ultramid® A3Z HP BK20465

Polyamide 66

BASF Corporation

Message:

Ultramid A3Z HP BK20465 is an unreinforced, impact modified, heat stabilized, high flow PA66 injection molding grade. Ultramid A3Z HP BK20465 offers a unique combination of maximum toughness and impact resistance with excellent high flow processability.

General Information				
UL YellowCard		E36632-641862		
Additive		Heat Stabilizer		
		Impact Modifier		
Features		Good Processability		
		Heat Stabilized		
		High Flow		
		High Impact Resistance		
		Impact Modified		
		Oil Resistant		
		Ultra High Toughness		
Agency Ratings		EC 1907/2006 (REACH)		
RoHS Compliance		RoHS Compliant		
Forms		Pellets		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.07	--	g/cm ³	ISO 1183
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	1900	1060	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	50.0	--	MPa	ISO 527-2
Tensile Strain (Yield, 23°C)	5.0	--	%	ISO 527-2
Nominal Tensile Strain at Break (23°C)	45	> 50	%	ISO 527-2
Flexural Modulus (23°C)	1800	880	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179
-30°C	28	19	kJ/m ²	
23°C	90	110	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179
-30°C	No Break	No Break		

23°C	No Break	No Break		
Notched Izod Impact Strength				ISO 180
-40°C	23	18	kJ/m ²	
23°C	80	99	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	64.0	--	°C	ISO 75-2/A
Melting Temperature (DSC)	260	--	°C	ISO 3146
Flammability	Dry	Conditioned		Test Method
Flame Rating				UL 94
1.50 mm	HB	--		
3.00 mm	HB	--		
Injection	Dry	Unit		
Drying Temperature	60.0		°C	
Drying Time	1.0 to 2.0		hr	
Suggested Max Moisture	0.040 to 0.20		%	
Processing (Melt) Temp	288 to 305		°C	
Mold Temperature	60.0 to 100		°C	
Injection Pressure	3.50 to 12.5		MPa	
Injection Rate	Fast			
Back Pressure	0.00 to 0.350		MPa	
Screw Speed	40 to 80		rpm	
Screw Compression Ratio	3.0:1.0 to 4.0:1.0			

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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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