

Ultramid® B3S FC R01

Polyamide 6

BASF Corporation

Message:

Ultramid B3S FC R01 is a general purpose, PA6 resin for injection molding.

Applications

Intended for food contact applications

General Information			
Features	Food Contact Acceptable		
	General Purpose		
Uses	General Purpose		
	Non-specific Food Applications		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.13	g/cm³	ASTM D792, ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	145	cm³/10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	3200	MPa	ISO 527-2
Tensile Strength			
Yield, 23°C	79.0	MPa	ASTM D638
Yield, 23°C	85.0	MPa	ISO 527-2
Tensile Strain			
Yield, 23°C	3.8	%	ISO 527-2
Break, 23°C	4.2	%	ASTM D638
Flexural Modulus (23°C)	2740	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	3.0	kJ/m²	ISO 179
Notched Izod Impact			
23°C	53	J/m	ASTM D256
23°C	5.0	kJ/m²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	180	°C	ASTM D648
1.8 MPa, Unannealed	76.0	°C	ASTM D648

1.8 MPa, Unannealed	65.0	°C	ISO 75-2/A
Peak Melting Temperature	220	°C	ASTM D3418, ISO 3146
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	2.0 to 4.0	hr	
Suggested Max Moisture	0.15	%	
Processing (Melt) Temp	240 to 285	°C	
Mold Temperature	65.0 to 80.0	°C	
Injection Pressure	3.50 to 12.5	MPa	
Injection Rate	Fast		

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



WECHAT