

Ultramid® Endure D3G7 BK20560

Polyamide 66

BASF Corporation

Message:

Ultramid Endure D3G7 BK20560 is a glass fiber reinforced injection molding grade with high stiffness, very good flowability, and excellent heat aging resistance up to at least 220 degC (428 degF).

General Information				
Filler / Reinforcement	Glass Fiber			
Features	Good Flow			
	Good Heat Aging Resistance			
	High Stiffness			
Agency Ratings	EC 1907/2006 (REACH)			
RoHS Compliance	RoHS Compliant			
Forms	Pellets			
Processing Method	Injection Molding			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.43	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.87	--	%	
Flow	0.30	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	11300	7600	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	200	130	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.9	5.1	%	ISO 527-2
Flexural Modulus (23°C)	10600	7400	MPa	ISO 178
Flexural Stress (23°C)	300	200	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179
-30°C	11	14	kJ/m ²	
23°C	10	13	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179
-30°C	60	60	kJ/m ²	
23°C	80	90	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	260	--	°C	ISO 75-2/B

1.8 MPa, Unannealed	240	--	°C	ISO 75-2/A
Melting Temperature (DSC)	260	--	°C	ISO 3146
CLTE				
Flow	1.4E-5 to 2.0E-5	--	cm/cm/°C	
Transverse	8.0E-5 to 1.3E-4	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	3.0E+14	4.0E+10	ohms·cm	IEC 60093
Electric Strength	48	29	kV/mm	IEC 60243-1
Comparative Tracking Index	250	225	V	IEC 60112
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Drying Time	2.0 to 4.0		hr	
Suggested Max Moisture	0.12		%	
Processing (Melt) Temp	280 to 300		°C	
Mold Temperature	80.0 to 90.0		°C	
Injection Pressure	3.50 to 12.5		MPa	
Injection Rate	Fast			

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