

PENTAMID A E20 H natur

Polyamide 66
PENTAC Polymer GmbH

Message:
Normal viscosity, high impact modified, heat stabilised polyamide 66

General Information				
Additive		Impact modifier heat stabilizer		
Features		Impact modification Thermal Stability		
Uses		Safety equipment Sporting goods		
Agency Ratings		EC 1907/2006 (REACH)		
Appearance		Natural color		
Forms		Particle		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.06	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Vertical flow direction	1.5	--	%	ISO 294-4
Flow direction	1.3	--	%	ISO 294-4
Water Absorption				ISO 62
Saturated, 23°C	7.2	--	%	ISO 62
Equilibrium, 23°C, 50% RH	2.4	--	%	ISO 62
Viscosity Number	140	--	cm ³ /g	ISO 307
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness (H 358/30)	100	--	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	1900	900	MPa	ISO 527-2/1
Tensile Stress (Yield)	45.0	35.0	MPa	ISO 527-2
Tensile Strain				ISO 527-2
Yield	8.0	40	%	ISO 527-2
Fracture	40	50	%	ISO 527-2
Flexural Modulus	1750	--	MPa	ISO 178
Flexural Stress	70.0	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method

Charpy Notched Impact Strength					ISO 179/1eA
-30°C	17	--	kJ/m ²		ISO 179/1eA
23°C	70	--	kJ/m ²		ISO 179/1eA
Charpy Unnotched Impact Strength					ISO 179/1eU
-30°C	No Break	--			ISO 179/1eU
23°C	No Break	No Break			ISO 179/1eU
Thermal	Dry	Conditioned	Unit		Test Method
Heat Deflection Temperature					
0.45 MPa, not annealed	180	--	°C		ISO 75-2/B
1.8 MPa, not annealed	60.0	--	°C		ISO 75-2/A
Melting Temperature (DSC)	260	--	°C		ISO 3146
Electrical	Dry	Conditioned	Unit		Test Method
Dielectric Strength (1.00 mm)	40	--	kV/mm		IEC 60243-1
Relative Permittivity (1 MHz)	3.30	--			IEC 60250
Comparative Tracking Index	600	--	V		IEC 60112
Flammability	Dry	Conditioned	Unit		Test Method
Flame Rating					UL 94
1.60 mm	HB	--			UL 94
3.20 mm	HB	--			UL 94
Additional Information					
干燥					
ISO Description: PA66-HI, MHR, 14-020 NThe value listed as Melting Point, ISO 3146, was tested in accordance with ISO 11357.Tensile Strain at Break, ISO 527: >40%					
调节后的					
ISO Description: PA66-HI, MHR, 14-020 NTensile Strain at Break, ISO 527: >50%					
Injection	Dry	Unit			
Drying Temperature	80.0		°C		
Drying Time	3.0		hr		
Suggested Max Moisture	0.14		%		
Suggested Max Regrind	20		%		
Rear Temperature	260 - 285		°C		
Middle Temperature	275 - 290		°C		
Front Temperature	275 - 285		°C		
Processing (Melt) Temp	280		°C		
Mold Temperature	80.0		°C		
Injection Pressure	65.0		MPa		
Holding Pressure	39.0		MPa		
Screw L/D Ratio	20.0:1.0				
Screw Compression Ratio	2.2:1.0 to 2.8:1.0				

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

