

Durethan® AC 30 DUS027 000000

Polyamide 66

LANXESS Asia/Pacific

Message:

PA 66, non-reinforced, injection molding, heat-aging stabilized, improved impact strength

General Information				
UL YellowCard		E245249-100858561		
Additive		Heat Stabilizer		
Features		Good Impact Resistance		
		Heat Stabilized		
Agency Ratings		EC 1907/2006 (REACH)		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.11	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 2577
Across Flow : 280°C, 2.00 mm ¹	1.8	--	%	
Across Flow : 120°C, 4 hr, 2.00 mm ²	0.20	--	%	
Flow : 280°C, 2.00 mm ³	1.3	--	%	
Flow : 120°C, 4 hr, 2.00 mm ⁴	0.20	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	3000	1100	MPa	ISO 527-2/1
Tensile Stress (Yield, 23°C)	70.0	40.0	MPa	ISO 527-2/50
Tensile Strain (Yield, 23°C)	5.8	25	%	ISO 527-2/50
Nominal Tensile Strain at Break (23°C)	18	75	%	ISO 527-2/50
Flexural Modulus ⁵ (23°C)	2600	1000	MPa	ISO 178/A
Flexural Stress				ISO 178/A
3.5% Strain,23°C	80.0	30.0	MPa	
23°C ⁶	100	40.0	MPa	
Flexural Strain at Flexural Strength ⁷ (23°C)	6.6	8.8	%	ISO 178/A
ISO Shortname	PA 66-HI, GHR, 14-030	--		ISO 1874
Admissible Residence Time at Tmax	< 10.0		min	
Residual Moisture Content	0.030 to 0.12		%	Karl Fisher
Impact	Dry	Conditioned	Unit	Test Method

Charpy Notched Impact Strength				ISO 179/1eA
-30°C	< 10	< 10	kJ/m ²	
23°C	< 10	25	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	No Break	No Break		
23°C	No Break	No Break		
Notched Izod Impact Strength				ISO 180/1A
-30°C	< 10	--	kJ/m ²	
23°C	< 10	25	kJ/m ²	
Unnotched Izod Impact Strength				ISO 180/1U
-30°C	No Break	No Break		
23°C	No Break	No Break		
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	192	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	66.0	--	°C	ISO 75-2/A
Melting Temperature ⁸	261	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow : 23 to 55°C	8.0E-5	--	cm/cm/°C	
Transverse : 23 to 55°C	1.1E-4	--	cm/cm/°C	
Injection	Dry	Unit	Test Method	
Drying Temperature - Dry Air Dryer	80.0		°C	
Drying Time - Dry Air Dryer	2.0 to 6.0		hr	
Processing (Melt) Temp	270 to 290		°C	
Mold Temperature	80.0 to 90.0		°C	
NOTE				
1.	60x60x2mm, 80°C MT, 600 bar			
2.	60x60x2mm			
3.	60x60x2mm, 80°C MT, 600 bar			
4.	60x60x2mm			
5.	2.0 mm/min			
6.	2.0 mm/min			
7.	2 mm/min			
8.	10°C/min			

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