

Durethan® B 31 FCS 000000

Polyamide 6

LANXESS Corporation

Message:

PA 6, non-reinforced, extrusion, low viscosity, slip agent

General Information				
Additive		slip agent		
Features		Low viscosity		
		smoothness		
Agency Ratings		EC 1907/2006 (REACH)		
Processing Method		Extrusion		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.14	--	g/cm ³	ISO 1183
Apparent Density	0.70	--	g/cm ³	ISO 60
Melt Volume-Flow Rate (MVR) (235°C/2.16 kg)	16.0	--	cm ³ /10min	ISO 1133
Water Absorption				ISO 62
Saturated, 23°C	10	--	%	ISO 62
Equilibrium, 23°C, 50% RH	3.0	--	%	ISO 62
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	140	50.0	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	2800	800	MPa	ISO 527-2/1
Tensile Stress (Yield, 23°C)	75.0	35.0	MPa	ISO 527-2/50
Tensile Strain (Yield, 23°C)	4.0	25	%	ISO 527-2/50
Nominal Tensile Strain at Break (23°C)	20	> 50	%	ISO 527-2/50
Flexural Modulus ¹ (23°C)	2600	700	MPa	ISO 178/A
Flexural Stress (3.5% Strain,23°C)	90.0	20.0	MPa	ISO 178/A
Flexural Strain at Flexural Strength ² (23°C)	5.0	8.0	%	ISO 178/A
ISO Shortname	PA 6, ES, 14-030	--		ISO 1874
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	5.0	< 5.0	kJ/m ²	ISO 179/1eA
23°C	5.0	50	kJ/m ²	ISO 179/1eA

Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	No Break	55 kJ/m ²		ISO 179/1eU
23°C	No Break	No Break		ISO 179/1eU
Notched Izod Impact				ISO 180/1A
-30°C	7.0	7.5	kJ/m ²	ISO 180/1A
23°C	7.0	50	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength				ISO 180/1U
-30°C	No Break	No Break		ISO 180/1U
23°C	No Break	No Break		ISO 180/1U
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, not annealed	150	--	°C	ISO 75-2/B
1.8 MPa, not annealed	50.0	--	°C	ISO 75-2/A
Vicat Softening Temperature	200	--	°C	ISO 306/B120
Melting Temperature ³	222	--	°C	ISO 11357-3
Linear thermal expansion coefficient				ISO 11359-2
Flow: 23 to 55°C	8.0E-5	--	cm/cm/°C	ISO 11359-2
Lateral: 23 to 55°C	8.0E-5	--	cm/cm/°C	ISO 11359-2
Injection	Dry	Unit		
Drying Temperature - Dry Air Dryer	80.0		°C	
NOTE				
1.	2.0 mm/min			
2.	2 mm/min			
3.	10°C/min			

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