

Grilamid® L 16 W 20 black 9995

Polyamide 12

EMS-GRIVORY

Message:

Grilamid® L 16 W 20 black 9995 is a Polyamide 12 (Nylon 12) material. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding.

Important attributes of Grilamid® L 16 W 20 black 9995 are:

Flame Rated

RoHS Compliant

Plasticized

Good Flexibility

Good Mold Release

Typical applications include:

Electrical/Electronic Applications

Automotive

Consumer Goods

Engineering/Industrial Parts

Industrial Applications

General Information				
UL YellowCard		E53898-243833	E132701-100536652	E132701-237868
Additive		Plasticizer		
Features		Good Flexibility		
		Good Flow		
		Good Mold Release		
		Low Viscosity		
		Plasticized		
Uses		Automotive Applications		
		Connectors		
		Consumer Applications		
		Electrical/Electronic Applications		
		Engineering Parts		
		Hydraulic Applications		
		Industrial Applications		
		Pneumatic Applications		
		Power/Other Tools		
RoHS Compliance		RoHS Compliant		
Appearance		Black		
Forms		Granules		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.03	--	g/cm ³	ISO 1183

Molding Shrinkage				ISO 294-4
Across Flow	1.0	--	%	
Flow	0.80	--	%	
Water Absorption				ISO 62
Saturation, 23°C	1.5	--	%	
Equilibrium, 23°C, 50% RH	0.70	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Shore Hardness (Shore D, 15 sec)	--	65		ISO 868
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	520	500	MPa	ISO 527-2
Tensile Stress				ISO 527-2
Yield	35.0	30.0	MPa	
Break	50.0	40.0	MPa	
Tensile Strain (Yield)	25	20	%	ISO 527-2
Nominal Tensile Strain at Break	> 50	> 50	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	--	3.0	kJ/m ²	
23°C	--	40	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-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	100	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	45.0	--	°C	ISO 75-2/A
Continuous Use Temperature				Internal Method
-- ¹	80.0 to 110	--	°C	
-- ²	150	--	°C	
Melting Temperature ³	174	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	1.4E-4	--	cm/cm/°C	
Transverse	1.6E-4	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+11	ohms	IEC 60093
Volume Resistivity	--	1.0E+13	ohms · cm	IEC 60093
Electric Strength	--	32	kV/mm	IEC 60243-1

Comparative Tracking Index	--	600	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification (0.800 mm)	HB	--		IEC 60695-11-10, -20
Additional Information	Dry	Conditioned		Test Method
ISO Type	PA12-P, GHL, 14-005	--		ISO 1874
NOTE				
1.	Long Term			
2.	Short Term			
3.	10°C/min			

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