

Grilon® R 47 HW 10

Polyamide 6

EMS-GRIVORY

Message:

Grilon® R 47 HW 10 is a Polyamide 6 (Nylon 6) material. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for extrusion.

Important attributes of Grilon® R 47 HW 10 are:

- RoHS Compliant
- Plasticized
- Good Flexibility
- Heat Stabilizer
- High Viscosity
- Typical applications include:
 - Automotive
 - Additive/Masterbatch
 - Consumer Goods
 - Electrical/Electronic Applications
 - Hose/Tubing

General Information				
Additive		Heat Stabilizer		
		Plasticizer		
Features		Good Flexibility		
		Heat Stabilized		
		High Viscosity		
		Medium Viscosity		
		Plasticized		
Uses		Automotive Applications		
		Consumer Applications		
		Electrical/Electronic Applications		
		Hydraulic Applications		
		Industrial Applications		
		Masterbatch		
		Pneumatic Applications		
		Tubing		
		Wire & Cable Applications		
RoHS Compliance		RoHS Compliant		
Forms		Granules		
Processing Method		Extrusion		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.10	--	g/cm ³	ISO 1183

Water Absorption				ISO 62
Saturation, 23°C	10	--	%	
Equilibrium, 23°C, 50% RH	2.5	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	940	430	MPa	ISO 527-2
Tensile Stress				ISO 527-2
Yield	34.0	--	MPa	
Break	44.0	46.0	MPa	
Tensile Strain				ISO 527-2
Yield	16	--	%	
Break	--	> 50	%	
Nominal Tensile Strain at Break	> 50	--	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact Strength				
--	9.6	--	kJ/m ²	ISO 180
--	--	7.5	kJ/m ²	ISO 180/1A
23°C	--	No Break		ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	142	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	47.0	--	°C	ISO 75-2/A
Continuous Use Temperature				Internal Method
-- ¹	80.0 to 110	--	°C	
-- ²	150	--	°C	
Vicat Softening Temperature				
--	210	--	°C	ISO 306/A
--	159	--	°C	ISO 306/B50
Melting Temperature ³	216	--	°C	ISO 11357-3
NOTE				
1.	Long Term			
2.	Short Term			
3.	10°C/min			

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

