

LNP™ THERMOCOMP™ UFW49RSC

compound

Polyphthalamide

SABIC Innovative Plastics Europe

Message:

LNP THERMOCOMP UFW49RSC is a compound based on Polyphthalamide resin containing Glass Fiber, Mineral. Added features include: Heat Stabilized.
Also known as: LNP* THERMOCOMP* Compound UFM-3249 HS-S VDO
Product reorder name: UFW49RSC

General Information			
Filler / Reinforcement	Glass\Mineral		
Additive	Heat Stabilizer		
Features	Heat Stabilized		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.87	g/cm ³	ISO 1183
Molding Shrinkage - Flow	0.10 to 0.30	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	20800	MPa	ISO 527-2/1
Tensile Stress (Yield)	186	MPa	ISO 527-2/5
Tensile Strain (Yield)	1.1	%	ISO 527-2/5
Flexural Modulus ¹	18100	MPa	ISO 178
Flexural Stress	278	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength ² (23°C)	7.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ³ (23°C)	40	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁴ (1.8 MPa, Unannealed, 64.0 mm Span)	255	°C	ISO 75-2/Af
CLTE			ISO 11359-2
Flow : 23 to 60°C	1.6E-5	cm/cm/°C	
Transverse : 23 to 60°C	3.6E-5	cm/cm/°C	
Injection	Nominal Value	Unit	
Drying Temperature	121 to 149	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.15	%	
Rear Temperature	310 to 321	°C	
Middle Temperature	316 to 327	°C	
Front Temperature	327 to 338	°C	

Processing (Melt) Temp	316 to 332	°C
Mold Temperature	138 to 166	°C
Back Pressure	0.172 to 0.344	MPa
Screw Speed	30 to 60	rpm

NOTE		
1.	2.0 mm/min	
2.	80*10*4	
3.	80*10*4	
4.	80*10*4 mm	

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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

