

Rilsamid® ASR 13

Polyamide 12

Arkema

Message:

Rilsamid ® ASR13 is a carbon fibre reinforced polyamide 12. This black coloured grade is designed for injection.

MAIN APPLICATIONS

Quick connectors.

General Information			
Filler / Reinforcement	Carbon Fiber, 15% Filler by Weight		
Uses	Connectors		
Appearance	Black		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.07	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (235°C/5.0 kg)	14.0	cm ³ /10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8300	MPa	ISO 527-2
Tensile Stress (Break)	110	MPa	ISO 527-2
Tensile Strain (Break)	4.0	%	ISO 527-2
Flexural Modulus	7200	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	7.0	kJ/m ²	
23°C	5.0	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179
-30°C	No Break		
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	178	°C	ISO 11357-3
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	< 1.0E+5	ohms	ISO 3915
Additional Information	Nominal Value		Test Method
ISO Shortname	PA12, MHLR, 18-080, CF 15		ISO 1874
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 90.0	°C	
Drying Time	4.0 to 8.0	hr	
Processing (Melt) Temp	240 to 280	°C	
Mold Temperature	40.0 to 90.0	°C	

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