

DSM Novamid® MC112LG55 C10 PA6-GF55

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 60% Glass Fiber Filled

Material Notes:

55% Glass Reinforced

Order this product through the following link:

http://www.lookpolymers.com/polymer_DSM-Novamid-MC112LG55-C10-PA6-GF55.php

Physical Properties	Metric	English	Comments
Density	1.65 g/cc	0.0596 lb/in ³	dry; ISO 1183
Moisture Absorption	1.50 %	1.50 %	Sim. To ISO 62
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 in/in	Sim. To ISO 294-4
Linear Mold Shrinkage, Transverse	0.0050 cm/cm	0.0050 in/in	Sim. To ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	180 MPa	26100 psi	cond; ISO 527-1/-2
	240 MPa	34800 psi	dry; ISO 527-1/-2
Elongation at Break	2.3 %	2.3 %	dry; ISO 527-1/-2
	2.9 %	2.9 %	cond; ISO 527-1/-2
Tensile Modulus	12.2 GPa	1770 ksi	cond; ISO 527-1/-2
	16.9 GPa	2450 ksi	dry; ISO 527-1/-2
Flexural Strength	240 MPa	34800 psi	cond; ISO 178
	360 MPa	52200 psi	dry; ISO 178
Flexural Modulus	11.1 GPa	1610 ksi	cond; ISO 178
	16.5 GPa	2390 ksi	dry; ISO 178
Charpy Impact Unnotched	9.00 J/cm ²	42.8 ft-lb/in ²	dry; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	10.0 J/cm ²	47.6 ft-lb/in ²	cond; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	1.90 J/cm ²	9.04 ft-lb/in ²	dry; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	2.90 J/cm ²	13.8 ft-lb/in ²	

Mechanical Properties	Metric @ Temperature 23.0 °C	English @ Temperature 73.4 °F	Comments cond: ISO 179/1eA
Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	10°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	220 °C	428 °F	dry; ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	215 °C	419 °F	dry; ISO 75-1/-2

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