Amodel® A-1565 HS

PPA-(GF+MD)65 Syensqo

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	**0.003**	mm/mm	ASTM D 955
Mold Shrinkage, TD	**0.005**	mm/mm	ASTM D 955

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	**19700 / -**	MPa	ISO 527
Stress at break	**138 / -**	MPa	ISO 527
Strain at break	**1 / -**	%	ISO 527
Flexural modulus, 23°C	**9100 / -**	MPa	ISO 178
Flexural modulus	**2280 / -**	MPa	ISO 178
Flexural modulus temperature	**175**	°C	-
Charpy impact strength, +23°C	**44 / -**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**3.4 / -**	kJ/m²	ISO 179/1eA
Izod impact strength, +23°C	**32 / -**	kJ/m²	ISO 180/1U
Izod notched impact strength, +23°C	**4 / -**	kJ/m²	ISO 180/1A
ASTM Data			
Tensile Modulus	**20700 / 20800**	MPa	ASTM D 638
Tensile Strength	**131 / 123**	MPa	ASTM D 638
Elongation at Break	**1.2 / 1.2**	%	ASTM D 638
Compressive Strength	**189 / -**	MPa	ASTM D 695
Flexural Modulus	**17900 / 18000**	MPa	ASTM D 790
Flexural Strength	**210 / 196**	MPa	ASTM D 790
Izod Impact notched, 1/8 in	**37.4 / 32**	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	**410 / -**	J/m	ASTM D 256

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	**311 / ***	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	**271 / ***	°C	ISO 75-1/-2
ASTM Data			
DTUL @ 264 psi	**271**	°C	ASTM D 648
Melting Temperature	**311**	°C	ASTM D 3418

Electrical properties	dry / cond	Unit	Test Standard
ASTM Data			
Volume Resistivity	**4E14 / -**	Ohm*cm	ASTM D 257
Arc Resistance	**125 / -**	s	ASTM D 495

Other properties	dry / cond	Unit	Test Standard
Density	**1900 / -**	kg/m³	ISO 1183
Water Absorption, 24hr	**0.1**	%	ASTM D 570

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**120**	°C	-
Pre-drying - Time	**4**	h	-
Processing humidity	**≤0.045**	%	-
Melt temperature	**321 - 343**	°C	-
Mold temperature	**135**	°C	-
Zone 1	**304 - 318**	°C	-
Zone 2	**316 - 329**	°C	-

Characteristics

Amodel® A-1565 HS

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Processing
Injection Molding

Delivery form
Pellets, Black

Additives
Lubricants

Special Characteristics
Heat stabilized or stable to heat

Features
Creep Resistance, Low Warpage

Chemical Resistance
General Chemical Resistance

Applications
Automotive

Regional Availability
North America, Europe, Asia Pacific, South and Central America, Near East/Africa