

Amodel® A-1145 HS LZT BK 979

PPA-GF45

Syensqo

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.002	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.006	mm/mm	ASTM D 955
Mechanical properties			
ISO Data			
Tensile Modulus	16800	MPa	ISO 527
Stress at break	263	MPa	ISO 527
Strain at break	2.7	%	ISO 527
Flexural modulus, 23°C	15900	MPa	ISO 178
Flexural strength	377	MPa	ISO 178
Charpy impact strength, +23°C	92	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	10	kJ/m ²	ISO 179/1eA
Izod impact strength, +23°C	61	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C	10	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	17200	MPa	ASTM D 638
Tensile Strength at Break	259	MPa	ASTM D 638
Elongation at Break	2.6	%	ASTM D 638
Flexural Modulus	13800	MPa	ASTM D 790
Flexural Strength	363	MPa	ASTM D 790
Izod Impact notched, 1/8 in	110	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	1100	J/m	ASTM D 256
Thermal properties			
ISO Data			
Temp. of deflection under load, 1.80 MPa	281	°C	ISO 75-1/-2
ASTM Data			
DTUL @ 66 psi	301^[ann.]	°C	ASTM D 648
DTUL @ 264 psi	287^[ann.]	°C	ASTM D 648
Melting Temperature	310	°C	ASTM D 3418
ann.: annealed			
Optical properties			
ASTM Data			
Light Transmittance	38	%	ASTM D 1003
Other properties			
Density	1590	kg/m ³	ISO 1183
Water Absorption, 24hr	0.12	%	ASTM D 570
Processing Recommendation Injection Molding			
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	4.5	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**Processing**

Injection Molding

Chemical Resistance

General Chemical Resistance

Delivery form

Pellets, Black

Special Characteristics

Heat stabilized or stable to heat

Features

Creep Resistance, Weldable

Certifications

RoHS compliant

Applications

Automotive, Electrical and Electronical

Regional Availability

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