

Technical Data Sheet



ALCOM HTC 300/1 GY1055-10LD

Base Polymer	High Temperature Copolyester
Filler/Additive System	special filler
Special Features	translucent,light scattering,high light diffusion
Market Segment	Automotive,Lighting
Application Area	lighting,light transparent components
Typical Applications	lamp covers,display elements,operating elements

Pre-Drying Conditions	90 °C in a dry air (dessiccant) dryer for 4-6 h max. moisture content <0,03 %
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Processing Injection Moulding	melt temperature 260-280 °C mould temperature 50-70 °C
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Storage	dry, protected from light
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Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	1650	MPa	ISO 178
Flexural Stress (3.5% Strain)	52	MPa	ISO 178
Tensile Modulus	1600	MPa	ISO 527
Tensile Stress at Yield	44	MPa	ISO 527
Tensile Elongation at Yield	6	%	ISO 527
Tensile Elongation at Break	100	%	ISO 527
Impact Strength (Charpy, 23°C)	no break	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	no break	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	85	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	10	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	100	°C	ISO 306
HDT / A (1,8 MPa)	85	°C	ISO 75-1/-2
Rheological Properties			
Melt Index (MVR)	18	cm ³ /10min	ISO 1133
MVR temperature	260	°C	-
MVR load	5	kg	-
Shrinkage (24h)	0.3 - 0.7	%	ISO 294-4
Physical Properties			
Density	1180	kg/m ³	ISO 1183
Flammability			
Flammability (0.75 mm)	HB	class	UL 94

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(Last update: 24.11.2023)

Flammability (1.5 mm)	HB	class	UL 94
Glow Wire (GWFI, 650°C, 1.0mm)	passed	-	DIN EN 60695
Glow Wire (GWFI, 650°C, 2.0mm)	passed	-	DIN EN 60695

Optical Properties

Total Transmission T(Y) (d=1,0mm, A, 2°)	30	%	ISO 13468
Haze T(Y) (d=1,0 mm, A, 2°)	95.5	%	ISO 13468
Half Power Angle T(Y) (d=1,0mm, A, 2°)	29	°	-