

Polytron® P40B01 Polypropylene+LGF

Product Description:

Polytron P40B01 is Black, 40% Long Glass Fiber Reinforced, Heat Stabilized POLYPROPYLENE, The Glass Fibers are Chemically Coupled to the Polymer Matrix, The material is supplied in pellets that are typically 12mm in length. Fiber length is the length of the pellets. Typical applications include Structural Automotive Applications ,

For Under the Hood, Passengers' compartment parts Applications

Product Information:

Characteristic	Unit	Test method	Property value
Physical			
Density	g/cm ³	ISO 1183	1.22
Mold Shrinkage Flow 2mm	%	INTERNAL	0.1-0.15
Mold Shrinkage X Flow 2mm	%	INTERNAL	0.25-0.3
Mechanical			
Flexural Modulus	MPa	ISO 178	9000
Flexural Strength	MPa	ISO 178	190
Strain at Break	%	ISO 527-2/1A	2
Strain at Break 80C	%	ISO 527-2/1A	2.5
Tensile Modulus	MPa	ISO 527-2/1A	10000
Tensile Modulus 80C	MPa	ISO 527-2/1A	6000
Tensile Strength	MPa	ISO 527-2/1A	125
Tensile Strength 80C	MPa	ISO 527-2/1A	85
Impact			
Notched Charpy Impact @-40C Edgewise	kJ/m ²	ISO179-1/1eA	18
Notched Charpy Impact Edgewise	kJ/m ²	ISO179-1/1eA	20
Un Notched Charpy Impact @-40C Edgewise	kJ/m ²	ISO179-1/1eU	45
Un Notched Charpy Impact Edgewise	kJ/m ²	ISO179-1/1eU	55
Thermal			
HDT 0.45MPa	°C	ISO-75	158

Characteristic	Unit	Test method	Property value
HDT 1.8MPa	°C	ISO-75	157
Melting Point	°C	ISO 11357-3	168
Flammability			
Flammability FMVSS302	mm/min	FMVSS 302	0-100
Flammability HB 3mm		UL-94	HB

Regulations:

ROHS2: ROHS Compliance

SVHC: SVHC Compliance

Conflict Minerals:

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Molding Guide:

Pre Drying Temperature: 80°C

Pre Drying Duration: 2-4 Hours

Processing recommendations:

Recommended Mold Temperature: 50-70°C

Feed: 220-240°C

Zone 1: 230-250°C

Zone 2: 230-250°C

Zone 3: 230-250°C

Revision #: 1

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The technical data contained herein are guides to use Polyram resins. Information contained herein is to the best knowledge, true and assure. The customer is nevertheless obliged to run an incoming material control.