



Americas: LIMITED USE

ABS, injection moulding, impact grade. Excellent surface appearance, good toughness and impact resistance. Excellent flow and chemical resistance.

Property

TYPICAL PROPERTIES ⁽¹⁾				
MECHANICAL	Value	Unit	Standard	
Tensile Stress, yld, Type I, 5 mm/min	43	MPa	ASTM D 638	
Tensile Modulus, 5 mm/min	2200	MPa	ASTM D 638	
Flexural Stress, yld, 1.3 mm/min, 50 mm span	73	MPa	ASTM D 790	
Flexural Modulus, 1.3 mm/min, 50 mm span	2270	MPa	ASTM D 790	
Hardness, Rockwell R	105	-	ASTM D 785	
ІМРАСТ	Value	Unit	Standard	
Izod Impact, notched, 23°C	373	J/m	ASTM D 256	
Izod Impact, notched, -40°C	106	J/m	ASTM D 256	
THERMAL	Value	Unit	Standard	
HDT, 1.82 MPa, 3.2mm, unannealed	82	°C	ASTM D 648	
HDT, 0.45 MPa, 6.4 mm, unannealed	96	°C	ASTM D 648	
CTE, -40°C to 40°C, flow	9.54E-05	1/°C	ASTM E 831	
Relative Temp Index, Elec	60	°C	UL 746B	
Relative Temp Index, Mech w/impact	60	°C	UL 746B	
Relative Temp Index, Mech w/o impact	60	°C	UL 746B	
PHYSICAL	Value	Unit	Standard	
Specific Gravity	1.04	-	ASTM D 792	
Mold Shrinkage, flow, 3.2 mm	0.5 - 0.8	%	SABIC Method	
Melt Flow Rate, 230°C/3.8 kgf	2.5	g/10 min	ASTM D 1238	
Melt Viscosity, 260°C, 1000 sec-1	2050	poise	ASTM D 3825	
ELECTRICAL	Value	Unit	Standard	
Volume Resistivity	3.7E+15	Ohm-cm	ASTM D 257	
Dielectric Strength, in air, 1.6 mm	16.8	kV/mm	ASTM D 149	
Arc Resistance, Tungsten {PLC}	5	PLC Code	ASTM D 495	
Hot Wire Ignition (PLC)	4	PLC Code	UL 746A	
High Voltage Arc Track Rate {PLC}	2	PLC Code	UL 746A	
High Ampere Arc Ign, surface {PLC}	0	PLC Code	UL 746A	
Comparative Tracking Index (UL) {PLC}	0	PLC Code	UL 746A	
FLAME CHARACTERISTICS	Value	Unit	Standard	
UL Recognized, 94HB Flame Class Rating (3)	1.47	mm	UL 94	
CSA (See File for complete listing)	LS88480	File No.	CSA LISTED	
Oxygen Index (LOI)	19	%	ASTM D 2863	
UV-light, water exposure/immersion	F2	-	UL 746C	

Processing

Source GMD, last updated:12/29/1999

Parameter Injection Molding

Value

Drying Temperature	80 - 95	°C
Drying Time	2 - 4	hrs
Drying Time (Cumulative)	8	hrs
Maximum Moisture Content	0.01	%
Melt Temperature	230 - 260	°C
Nozzle Temperature	230 - 260	°C
Front - Zone 3 Temperature	225 - 245	°C
Middle - Zone 2 Temperature	210 - 225	°C
Rear - Zone 1 Temperature	190 - 205	°C
Mold Temperature	50 - 70	°C
Back Pressure	0.3 - 0.7	MPa
Screw Speed	30 - 60	rpm
Shot to Cylinder Size	50 - 70	%
Vent Depth	0.038 - 0.051	mm

Source GMD, last updated:12/29/1999

THESE PROPERTY VALUES ARE NOT INTENDED FOR SPECIFICATION PURPOSES.

PLEASE CHECK WITH YOUR (LOCAL SALES OFFICE) FOR AVAILABILITY IN YOUR REGION

(1) Typical values only. Variations within normal tolerances are possible for various colors. All values are measured after at least 48 hours storage at 23°C/50% relative humidity. All properties, except the melt volume and melt flow rates, are measured on injection molded samples. All samples tested under ISO test standards are prepared according to ISO 294.

(2) Only typical data for selection purposes. Not to be used for part or tool design.

(3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.

(4) Internal measurements according to UL standards.

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