

Polypropylene homopolymer (PPh) based compound.

Heat stabilized. Metal stabilized. Mineral filler. UL94 V-0 classified, with brominated flame retardants, PBB/PBDE free.

PHYSICAL PROPERTIES	STANDARD	VALUE MEASURE UNITS
Density	ISO 1183	1.32 g/cm ³
Linear shrinkage at moulding	130 1103	1.52 g/Cili-
Longitudinal (0.078in/8,700psi)	ISO 294-4	0.008 ÷ 0.010 in/in
Transversal (0.078in/8,700psi)	ISO 294-4	0.008 ÷ 0.010 in/in
Dimensional stability		75
Moisture absorption (in air)		, 3
after 24hrs	ISO 62-4	0.05 %
MECHANICAL PROPERTIES	STANDARD	VALUE MEASURE UNITS
CHARPY impact strength	0.7.1.27.1.12	MEST HERIOTIE SHITS
Unnotched, at +73°F	ISO 179-1eU	9.35 ft.lb/in ²
Unnotched, at -4°F	ISO 179-1eU	3.04 ft.lb/in ²
Notched, at +73°F	ISO 179-1eA	1.17 ft.lb/in²
Notched, at -4°F	ISO 179-1eA	1.07 ft.lb/in ²
Tensile elongation		·
At yield (0.196 in/min), 73°F	ISO 527 (1)	2.3 %
At yield (0.196 in/min), 140°F	ISO 527 (1)	5.5 %
At yield (0.196 in/min), 195°F	ISO 527 (1)	6.5 %
At break (0.196 in/min), 73°F	ISO 527 (1)	3.7 %
At break (0.196 in/min), 140°F	ISO 527 (1)	6.0 %
At break (0.196 in/min), 195°F	ISO 527 (1)	10.0 %
Tensile strength		
At yield (0.196 in/min), 73°F	ISO 527 (1)	3900 psi
At yield (0.196 in/min), 140°F	ISO 527 (1)	2500 psi
At yield (0.196 in/min), 195°F	ISO 527 (1)	1700 psi
At break (0.196 in/min), 73°F	ISO 527 (1)	3600 psi
At break (0.196 in/min), 140°F	ISO 527 (1)	2200 psi
At break (0.196 in/min), 195°F	ISO 527 (1)	1400 psi
Elastic modulus		
Tensile (speed 0.04 in/min), at 73°F	ISO 527 (1)	510 kpsi
Tensile (speed 0.04 in/min), at 140°F	ISO 527 (1)	210 kpsi
Tensile (speed 0.04 in/min), at 195°F	ISO 527 (1)	140 kpsi



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THERMAL PROPERTIES	STANDARD	VALUE MEASURE UNITS
Coefficient of linear thermal expansion (CLTE)		
+86°C to +212°F (longitudinal)	ISO 11359-2	56 μin/(in·°F)
VICAT - Softening point		
11 lb (heating rate 122°F/h)	ISO 306	158 °F
HDT - Heat Deflection Temperature		
66 psi	ISO 75	239 °F
264 psi	ISO 75	149 °F
C.U.T Continuous Use Temperature		
Long period (20,000h)	ASTM E1641/E1877	221 °F
FLAMMABILITY	STANDARD	VALUE MEASURE UNITS
Oxygen Index	ASTM D 2863	27 %
Flammability rating		
0.118 in thickness	UL 94	5VB
0.059 in thickness	UL 94	V-0
0.029 in thickness	UL 94	V-0
GWFI - Glow Wire Flammability Index		
	IEC 60695-2-12	960°C/1mm
	IEC 60695-2-12	960°C/2mm
ELECTRICAL PROPERTIES	STANDARD	VALUE MEASURE UNITS
CTI - Comparative Tracking Index		
solution A (without surfactant)	IEC 60112	600 V
Electrical resistivity		
Surface	ASTM D 257	1E12 ohm



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MATERIAL - STORAGE

Sealed, undamaged packages has to be kept in dry storage facilities, providing they are also able to protect them from weather and accidental damages.

HANDLING AND SAFETY

Detailed information about a safe treatment of the material are indicated in the "Material Safety Data Sheet" (MSDS) furnished with the first material supply. The MSDS may be also sent again in case of loss.

PREDRYING CONDITIONS

At least 3 hours at 176 ÷ 194°F

These are the suggested conditions to reduce the moisture content to adequate levels. Temperature and drying time can be reduced by using vacuum ovens

ACTUAL MELT TEMPERATURE

356 ÷ 428°F

The injection molding machine settings needed to obtain the suggested melt temperature will depend greatly on shot size and machine capacity, as well as other molding parameters such as: injection speed, screw RPM, back pressure, etc. On small machines, running short cycles, it is possible to use higher melt temperatures to improve plastification, fluidity and surface appearance, paying attention to any indication of material degradation.

MOLD TEMPERATURE

68 ÷ 104°F

The mold temperature suggested above is the actual tool steel temperature. This can be significantly different from the tool settings, due to the cooling system efficiency and the accuracy of the temperature control on the tool.

INJECTION SPEED

Medium

The advisable injection speed greatly depends on cavity geometry and injection molding machine size. The use of high injection speed can improve the surface appearance, but it can also cause outgassing and burn marks due to overheating through shear stress.

REGRIND USAGE

The use of regrind is possible, but should be assessed on the basis of the project, moulding parameters, and type of grinding used. The effect of using regrind on material properties must be evaluated by the customer on its specific project and process. High percentages of regrind may cause a reduction in viscosity, reducing mechanical properties, first resilience. According to UL guideline, up to 25% of regrind is permitted, without affecting the ratings of the yellow card. However, LATI suggests that no more of 15% of regrind is used.

HOT RUNNER MOLDS

Hot runner moulds are not recommended.



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TO AVOID

In order to prevent any material degradation, over-dimensioned machines should be avoided.

NOTES

The products mentioned herein are not suitable for applications in contact with foodstuff or for potable water transportation, or for toy manufacturing. The products mentioned herein are not suitable for applications in the pharmaceutical, medical or dental sector.

APPROVALS

USA (UL): Product versions approved according UL recommendations are available.

CONTACTS

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Values shown are based on testing of injection moulded laboratory test specimens, conditioned according to the standard and represent data that fall within the standard range of properties for non-coloured material, if not otherwise specified. As they may be subject to variations, these values do not represent a sufficient basis for any part design and are not intended for use in establishing values for specification purposes. Properties of moulded parts can be influenced by a wide range of factors including, but not limited to, colorants, part design, processing conditions, environmental conditions, and usage of regiring during the moulding process. If data are explicitly indicated as provisional, range of properties is be to considered wider. This information and technical information is a true as a subject to change without notice. The customer's half always ensure that the latest releases of technical information is purposes from a subject to change without notice. The customer's new manufacture are used to the product, and makes no responsibility to insepret and test or products in order to determine to its own a for any printing errors. It is the customer's reportability for insepted and test our products in order to determine to its own additional town and the customer's pericular purpose from a technical as well as well as health, safety, and environmental standpoint. Such testing has not necessarily been done by us a standard and the purpose to which utilizes our products are beyond our control. Lall S.p.d. does not accept and hereby disclaims lability for any damages whatsoever in connection with the usual or reliance on this information. No one is authorised to make any warranties; issue any immunities or assume any liabilities on their manufacture of the purchase price at Lall's option, and in no event shall Lall S.p.A. be faited for special, consequential, indicated it, purple or examples of the purchase price at Lall's option, and in no event shall Lall S.p.A. be faited for special, consequential,

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