

Polypropylene homopolymer 21% talc filled, that has been heat stabilized for applications requiring long term heat exposure used to produce exterior product with heat load up to 90°C, UV stabilized and good dimensional stability. This basic product satisfies many application needs.

Homopolímero de polipropileno con un 21% de talco, termoestabilizado para aplicaciones que requieren exposición prolongada al calor. Se utiliza para fabricar productos exteriores con una carga térmica de hasta 90 °C, estabilizado contra rayos UV y con buena estabilidad dimensional. Este producto básico satisface diversas necesidades de aplicación.

Form	Granules			
Color available	All color			
Processing method	Injecton			
Features	Copolymer	Heat stabilized		
Additive				
According or exceeded	VW TL 44045-PP6			
According or exceeded	STELLANTIS MS-DB500 CPN 2347			
According or exceeded				
Physical properties				
Description	ASTM	ISO	Unit	Value
Description	-	1043	-	PPH-TD20
Density	D1505	1183	g/cm <sup>3</sup>	1.06
Ash content	D2584	3451	%	22
Linear molds shrinkage	D955	294-4	%	-
Melt flow rate ( 230°C/2.16 Kg)	D1238	1133	%	13
Mechanical properties				
Tensile strength at yield	D638	527	MPa	30
Tensile strength at break	D638	527	MPa	-
Tensile elongation at yield	D637	526	%	40
Tensile elongation at break	D638	527	%	-
Tensile modulus	D638	527	MPa	-
Flexural modulus	D790	178	MPa	2500
IZOD impact strength, notched 23°C	-	ISO 180 1eA	kJ/m <sup>2</sup>	3.5
IZOD impact strength, notched -30°C	-	ISO 180 1eA	kJ/m <sup>3</sup>	-
Charpy impact strength, unnotched 23°C	-	ISO 179 1eA	kJ/m <sup>2</sup>	23
Thermal properties				
Vicat Method B50 (50N/50°C)	D1525	306	°C	95
H.D.T. method B (0.45MPa)	D647	75	°C	-
H.D.T. method A (1.82 MPa)	D648	75	°C	-
Aging test (150°C)	-	-	hrs	> 700
Flammability properties				
Flame rating 1.6 mm	UL 94	UL 94	Class	HB
Flame rating 3.2 mm	UL 94	UL 94	Class	HB
Automotive materials ( Thickness >=1 mm)	FMVSS 302	3795	mm/min	< 100
Processing conditions				
Rear temperature	-	-	°C	180 ÷ 200
Middle temperature	-	-	°C	205 ÷ 230
Front temperature	-	-	°C	225 ÷ 240
Nozzle temperature	-	-	°C	230 ÷ 240
Molds temperature	-	-	°C	20 ÷ 40
Injection Pressure	-	-	MPa	2 ÷ 11
Holding Pressure	-	-	MPa	2 ÷ 10
Back Pressure	-	-	MPa	0.2 ÷ 3
Cushion	-	-	mm	3 ÷ 6.5
Drying (Optional)	-	-	hrs / °C	3h - 80°C
Suggested Max Moisture	-	-	%	0.05