

MEXPRENE PPC 20 H NC

Polypropylene copolymer, heat stabilized. This specification covers properties of a natural or colored, unfilled, general purpose, injection molding grade, pellet form, polypropylene copolymer. The products covers a wide range of applications, markets and performance requirements. Standard grades provide a desired balance of properties including stiffness, durability, impact resistance and heat resistance. Custom grades are available with features such as UV stabilizers, heat stabilizers, custom color, high impact, etc.

Form		Granules	
Color available		Black	
Processing method		Injecton	
Features		Copolymer	Heat stabilized
Additive			
According or exceeded	GM GMP.PP.001 Color: Natural	TOYOTA TSM 5514G-2B Color: Natural	TOYOTA TSM 5514G-5 Color: Natural
According or exceeded	TOYOTA TSM 5514G-2&2A Color: Natural	TOYOTA TSM 5514G-3 Color: Natural	STELLANTIS MS-DB-500 CPN 3570 Color: BK
According or exceeded	GM GMP.PP.006 Color: Natural	TOYOTA TSM 5514G-3A Color: Natural	GM GMW15702-150027

Physical properties	ASTM	ISO	Unit	Value
Description	-	1043	-	>PP-C<
Density	D1505	1183	g/cm ³	0,899
Ash content	D2584	3451	%	-
Linear molds shrinkage	D955	294-4	%	-
Melt flow rate (230°C/2.16 Kg)	D1238	1133	%	20

Mechanical properties				
Tensile strength at yield	D638	527	MPa	24
Tensile strength at break	D638	527	MPa	-
Tensile elongation at yield	D637	526	%	-
Tensile elongation at break	D638	527	%	-
Tensile modulus	D638	527	MPa	-
Flexural modulus	D790	178	MPa	1100
IZOD impact strength, notched 23°C	-	ISO 180 1eA	kJ/m ²	12
IZOD impact strength, notched -30°C	-	ISO 180 1eA	kJ/m ³	-
Charpy impact strength, unnotched 23°C	-	ISO 179 1eA	kJ/m ²	-

Thermal properties				
Vicat Method B50 (50N/50°C)	D1525	306	°C	-
H.D.T. method B (0.45MPa)	D647	75	°C	91
H.D.T. method A (1.82 MPa)	D648	75	°C	58
Aging test (150°C)	-	-	hrs	> 200

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 ÷ 220
Front temperature	-	-	°C	215 ÷ 220
Nozzle temperature	-	-	°C	220 ÷ 230
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