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GTPRENE ECO OC 10 TD20 H1 BK 800

Polypropylene Compound (PTD20)

Description	Polypropylene with 20% Talc filled, heat stabilized.			
Color	Black			
Markets	Automotive, furniture and general purpose			
Applications	Components			
Norms				
Certifications				
Approvals				
Processing Technology	Injection			
Physical Properties	Values	Unit	ISO	ASTM D
Density	1.06	g/cm³	1183	792
Filler Content	21	%	3451	5630
Mould Shrinkage	-	%	294-4	
Melt Flow Index 230°C/2.16 kg	10	g/10min	1133	1238
Melting Point (DSC)	-	°C	3146	3418
Water absorption at saturation (Immersion in H ₂ O at 23 °C)	-	%	62	570
Moisture absorption at equilibrium (50% RH, 23°C)	-	%	62	570
Mechanical Properties	Values	Unit	ISO	ASTM D
Tensile strength at yield	21	MPa	527-1	638
Tensile strength at break	-	MPa	527-1	638
Tensile elongation at break	>8	%	527-1	638
Tensile Modulus	-	MPa	527-1	638
Flexural Strength at yield	-	MPa	178	790
Flexural Modulus	1700	MPa	178	790
IZOD Impact strength, notched (23°C)	-	lb-ft/in2	-	256
IZOD Impact strength, notched (23°C)	5.5	KJ/m2	180 1eA	-
Charpy Impact strength, notched (23°C)	-	KJ/m2	179 1eA	-
Charpy Impact strength, unnotched (23°C)	-	KJ/m2	179 1eU	-
Thermal Properties	Values	Unit	ISO	ASTM D
Vicat A (50°C/h, 10 N)	-	°C	306	1525
Vicat B (50°C/h, 50 N)	87	°C	306	1525
HDT method A (1.820 MPa)	-	°C	75-2	648
HDT method B (0.450 MPa)	-	°C	75-1	648
Flammability	Values			
Flame rating at 0.8 mm	-		UL94	UL94
Flame rating at 1.6 mm	-		UL94	UL94
Flame rating at 3.2 mm	HB		UL94	UL94
Processing Conditions	Values			
Drying	2h/80°C	-	-	-
1st Zone	190°C	-	-	-
2nd Zone	220°C	-	-	-
3rd Zone	230°C	-	-	-
Mold	40-60°C	-	-	-

Notes: The values are to be considered typical and do not constitute a specification.

Test Temperature: 23°C, unless otherwise stated

Storage, transportation and handling:

Storage and handling of the resin should consider protecting it from direct sunlight, temperatures above 40°C, and ambient humidity. Exposure to any of these conditions will reduce the resin's storage time.

Transport and handling equipment must be designed and equipped with the necessary measures to prevent the creation and accumulation of fine particles and dust originating from or contained in the resin. Under certain circumstances, these particles can pose a hazardous risk.

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