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Celanese
The chemistry inside innovation™

POLIFOR® TR/20 H-D-R - PP

Description

Polypropylene, homopolymer, 20% talc filled, heat, detergent and copper contact stabilized

Physical properties	Value	Unit	Test Standard
Density	**1050**	kg/m³	ISO 1183
Melt flow rate, MFR	**14**	g/10min	ISO 1133
MFR temperature	**230**	°C	ISO 1133
MFR load	**2.16**	kg	ISO 1133

Mechanical properties	Value	Unit	Test Standard
Tensile modulus	**2800**	MPa	ISO 527-2/1A
Tensile stress at yield, 50mm/min	**32**	MPa	ISO 527-2/1A
Flexural modulus, 23°C	**2700**	MPa	ISO 178
Flexural strength, 23°C	**50**	MPa	ISO 178
Charpy impact strength, 23°C	**35**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, 23°C	**2**	kJ/m²	ISO 179/1eA
Izod impact notched, 23°C	**2.5**	kJ/m²	ISO 180/1A

Thermal properties	Value	Unit	Test Standard
Vicat softening temperature, 50°C/h 50N	**96**	°C	ISO 306
Flammability at thickness h	**HB**	class	UL 94
thickness tested (h)	**1.50**	mm	UL 94
UL recognition (h)	**UL**	-	UL 94

Typical injection moulding processing conditions

Pre Drying	Value	Unit	Test Standard
Drying time	**2 - 3**	h	-
Drying temperature	**80 - 100**	°C	-
Temperature	**Value**	**Unit**	**Test Standard**
Zone1 temperature	**190 - 210**	°C	-
Zone2 temperature	**210 - 230**	°C	-
Zone3 temperature	**220 - 240**	°C	-
Melt temperature	**230 - 250**	°C	-
Mold temperature	**30 - 60**	°C	-

Other text information

Longer pre-drying times/storage

This product should be stored in a covered facility and kept away from moisture and heat.

Characteristics

Product Categories	Additives
Mineral reinforced	Metal deactivator

Processing

Injection molding