

MAGNUM™ 357 HP

ABS

Trinseo

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Density of melt	1080	kg/m ³	-
Thermal conductivity of melt	0.13	W/(m K)	-
Spec. heat capacity of melt	1890	J/(kg K)	-
Ejection temperature	127	°C	-
ASTM Data			
Melt Flow Index, MFI	2	g/10min	ASTM D 1238
Temperature	230	°C	-
Load	3.8	kg	-
Mold Shrinkage, MD	0.0055	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Tensile Modulus	1999	MPa	ASTM D 638
Tensile Strength at Yield	37.9	MPa	ASTM D 638
Tensile Strength at Break	33.1	MPa	ASTM D 638
Elongation at Break	45	%	ASTM D 638
Flexural Modulus	2206	MPa	ASTM D 790
Flexural Strength	62.1	MPa	ASTM D 790
Izod Impact notched, 1/8 in	310	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	128	J/m	ASTM D 256
Temperature	-17.8	°C	-

Thermal properties	Value	Unit	Test Standard
ASTM Data			
Coefficient of Thermal Expansion, MD	81	E-6/K	ASTM D 696
DTUL @ 66 psi	104	°C	ASTM D 648
DTUL @ 264 psi	87.8	°C	ASTM D 648
Vicat Temperature	120	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Density	1060	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	82.2 - 85	°C	-
Pre-drying - Time	2 - 4	h	-
Processing humidity	≤0.1	%	-
Melt temperature	260 - 282	°C	-
Mold temperature	37.8 - 82.2	°C	-
Back pressure	0.345 - 0.689	MPa	-

Characteristics**Processing**

Injection Molding, Profile Extrusion, Sheet Extrusion, Thermoforming

Special Characteristics

Heat stabilized or stable to heat

Applications

Automotive

Regional Availability

North America, South and Central America