

Hanwha Total PP TB53L

Polypropylene

HANWHA TOTAL PETROCHEMICALS Co., Ltd.

Message:

TB53L is used in automobile head-lamps. This grade is articularly suited for lamp-housings due to high resistance to heat originating at around lamps, and prevents hazing lamp glass in the housings by reducing fume. Also improves the finish on car lamps interior surface.

General Information			
UL YellowCard	E140331-222955		
Additive	Anti-Fog		
Features	Anti-fogging		
	Good Impact Resistance		
	Good Surface Finish		
	High Heat Resistance		
Uses	Automotive Applications		
	Housings		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	1.14	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	9.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.60 to 1.0	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	87		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	28.4	MPa	ASTM D638
Tensile Elongation (Break)	10	%	ASTM D638
Flexural Modulus	3330	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C	29	J/m	
23°C	44	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	140	°C	ASTM D648

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