

Lustran® 451

ABS

INEOS Styrolution

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	1.8	g/10min	ASTM D 1238
Temperature	200	°C	-
Load	5	kg	-
Mold Shrinkage, MD	0.005	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Tensile Modulus	2620	MPa	ASTM D 638
Tensile Strength at Yield	42.7	MPa	ASTM D 638
Flexural Modulus	2586	MPa	ASTM D 790
Rockwell Hardness	R 107	-	ASTM D 785
Izod Impact notched, 1/8 in	181	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	69.4	J/m	ASTM D 256
Temperature	-17.8	°C	-

Thermal properties	Value	Unit	Test Standard
ASTM Data			
UL 94 Flame rating	HB	-	UL 94
Coefficient of Thermal Expansion, MD	82.8	E-6/K	ASTM D 696
DTUL @ 264 psi	80.6	°C	ASTM D 648
Vicat Temperature	96.1	°C	ASTM D 1525

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	79.4	°C	-
Pre-drying - Time	2 - 4	h	-
Mold temperature	43.3 - 65.6	°C	-

Characteristics**Processing**

Injection Molding

Regional Availability

North America, Asia Pacific, South and Central America