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Material Data Center is a leading international information system for the plastics industry. Material Data Center offers a comprehensive plastics database, calculation tools, CAE interfaces, a literature database and an application database. For more information about Material Data Center visit www.materialdatacenter.com.

This is the free Material Data Center Datasheet of STYRON™ 5050 - (PS-HI) - Styron LLC

Material Data Center offers the following functions for **STYRON™ 5050**:
unit conversion, PDF datasheet print, comparison with other plastics

Check here, which other **Styron** datasheets, application examples or technical articles are available in Material Data Center

Use the following short links to get directly to the properties of interest in this datasheet:

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index	14	g/10min	ASTM D 1238
Temperature	200	°C	-
Load	5	kg	-
Mold Shrinkage, MD	0.0055	mm/mm	ASTM D 955
Density, 73°F	1040	kg/m³	ASTM D 792
Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Tensile Strength	18	MPa	ASTM D 638
Tensile Strength at Yield	20	MPa	ASTM D 638
Elongation at Break	40	%	ASTM D 638
Flexural Modulus	2010	MPa	ASTM D 790
Flexural Strength	37.2	MPa	ASTM D 790
Izod Impact notched, 1/8 in	0.12	kJ/m	ASTM D 256
Thermal properties	Value	Unit	Test Standard
ASTM Data			
UL 94 Flame rating	HB	-	UL 94
Thickness tested	1.47	mm	-
DTUL @ 264 psi	70	°C	ASTM D 648
Vicat Temperature	98.9	°C	ASTM D 1525
Characteristics			
Processing			
Injection Molding, Compression Molding			
Special Characteristics			
High impact or impact modified			
Ecological valuation			
Food approval FDA 21 CFR			
Regional Availability			
Asia Pacific			
Disclaimer			

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