

Thermoplastic Elastomers

Rubber

Base polymer common name	Type acc. to ISO 1629	Hardness Shore A	Shore A	Tensile strength	Tear strength	Elongation at break	Compression set at increased temperature	Resilience	Water at 100°C	Mineral oil	Fuels	Acids	Alkalis	Low temperature	High temperature	Weather resistance	Flame resistance	Electrical resistance	Gas impermeability	Cost indication
Natural rubber	NR	30	>90	++	+	++	□	++	-	--	--	-	□	+	--	--	--	+	-	1
Styrene butadiene rubber	SBR	35	>90	+	□	□	□	+	-	--	--	-	□	□	--	--	--	+	-	1
Ethylene Propylene Terpolymer	EPDM	30	90	□	□	□	++	□	+	-	--	++	++	+	□	++	--	+	-	1
Nitrile rubber	NBR	25	>90	+	□	+	+	-	□	+	□	□	-	□	-	--	--	-	+	2
Chloroprene rubber	CR	25	90	+	□	+	□	□	-	□	-	-	□	□	-	+	□	-	□	2
Butyl rubber	IIR	25	80	□	-	++	-	--	□	--	--	+	+	□	--	□	--	+	++	2
Chlorosulfonated Polyethylene	CM/CSM	50	90	□	□	-	-	--	□	□	-	++	+	-	-	++	+	□	□	3
Polyacrylate rubber	ACM	50	90	□	-	-	-	--	--	+	□	--	--	□	+	-	--	-	□	4
Silicone rubber	VMQ	20	85	-	-	□	-	□	-	-	--	-	--	++	++	++	--	++	--	6
Polyurethane rubber	AU	60	90	++	++	+	□	□	--	+	□	--	--	-	-	--	--	□	-	6
Hydrated Nitrile rubber	HNBR	50	90	+	+	□	□	□	□	+	□	□	□	-	+	+	-	-	+	8
Fluorocarbon rubber	FPM	55	90	□	□	-	□	--	□	+	++	+	+	--	++	++	++	□	++	15
Fluorosilicone rubber	FVMQ	40	80	-	□	□	-	-	-	+	+	-	--	++	+	+	□	□	--	40
				Mechanical properties					Chemical resistance					Temperature behaviour		Other aspects				

Base polymer common name	Type acc. to ISO 1629	Type	Hardness Shore A	Hardness Shore D	Tensile strength	Compression set at 100°C	Low temperature	Temperature resistance	Short term temperature	Mineral oil	Hydrocarbons	Hot water	Hydrolyse	Weather resistance
Polyetheramide	TPE-A	PEI	60	75	+	-	-	130 °C	145 °C	+	□	-	-	□
Polyetherester	TPE-E	+ PE	40	72	+	-	□	110 °C	125 °C	□	□	--	--	-
Olefin blend	TPE-O	EP/PPO	65	75	□	--	-	95 °C	110 °C	--	--	+	+	+
Styrene block polymer	TPE-S	SEBS	10	60	-	-	□	85 °C	110 °C	--	--	□	+	+
Polyurethane	TPE-U	TPU	70	85	+	-	-	100 °C	120 °C	-	-	-	-	-
Crosslinked olefin blend	TPE-V	NBR/PPO	75	-	-	□	□	100 °C	115 °C	□	□	-	□	□
		EPDM/PPO	35	75	-	□	□	110 °C	130 °C	-	--	+	+	+
				Mechanical properties			Temperature behaviour			Chemical resistance			Other aspects	

Performance:

- unsuitable --
- poor -
- fair □
- good +
- excellent ++

The information on this sheet has been compiled from the results of various test data. This publication however, cannot be considered as a commitment or as a written guarantee by Hoogerdijk b.v. The information presented cannot replace the necessity of serious testing of the product in its actual application.



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